AMENDMENTS TO THE |CLAIMS|

1.   (Currently Amended) A   method   for   the   detection   of   drink-spoiling microorganisms in a sample, whereby the detection is carried out by using at least one oligonucleotide probe having a nucleic acid sequence selected from the group consisting of~~(all~~ ~~sequences in 5'→ 3'direction)~~:

SEQ ID No. 1:	5'- GTTTGACCAGATTCTCCGCTC
SEQ ID No. 5:	5'- CCCGGTCGAATTAAAACC
SEQ ID No. 6:	5'- GCCCGGTCGAATTAAAAC
SEQ ID No. 7:	5'- GGCCCGGTCGAATTAAAA
SEQ ID No. 8:	5'- AGGCCCGGTCGAATTAAA
SEQ ID No. 9:	5'- AAGGCCCGGTCGAATTAA
SEQ ID No. 10:	5'- ATATTCGAGCGAAACGCC
SEQ ID No. 11:	5'- AAAGATCCGGACCGGCCG
SEQ ID No. 12	5'- GGAAAGATCCGGACCGGC
SEQ ID No. 13	5'- GAAAGATCCGGACCGGCC
SEQ ID No. 14	5'- GATCCGGACCGGCCGACC
SEQ ID No. 15	5'- AGATCCGGACCGGCCGAC
SEQ ID No. 16	5'- AAGATCCGGACCGGCCGA
SEQ ID No. 17	5'- GAAAGGCCCGGTCGAATT
SEQ ID No. 18	5'- AAAGGCCCGGTCGAATTA
SEQ ID No. 19	5'- GGAAAGGCCCGGTCGAAT
SEQ ID No. 20	5'- AGGAAAGGCCCGGTCGAA
SEQ ID No. 21	5'- AAGGAAAGGCCCGGTCGA
SEQ ID No. 22:	5'- ATAGCACTGGGATCCTCGCC
SEQ ID No. 23:	5'- CCAGCCCCAAAGTTACCTTC
SEQ ID No. 24:	5'- TCCTTGACGTAAAGTCGCAG
SEQ ID No. 25:	5'- GGAAGAAAACCAGTACGC
SEQ ID No. 26:	5'- CCGGTCGGAAGAAAACCA

SEQ ID No. 27:   5′- GAAGAAAACCAGTACGCG

SEQ ID No. 28:   5′- CCCGGTCGGAAGAAAACC

SEQ ID No. 29:   5′- CGGTCGGAAGAAAACCAG

SEQ ID No. 30:   5′- GGTCGGAAGAAAACCAGT

SEQ ID No. 31:   5′- AAGAAAACCAGTACGCGG

SEQ ID No. 32:   5′- GTACGCGGAAAAATCCGG

SEQ ID No. 33:   5′- AGTACGCGGAAAAATCCG

SEQ ID No. 34:   5′- GCGGAAAAATCCGGACCG

SEQ ID No. 35:   5′- CGGAAGAAAACCAGTACG

SEQ ID No. 36:   5′- GCCCGGTCGGAAGAAAAC

SEQ ID No. 37:   5′- CGCGGAAAAATCCGGACC

SEQ ID No. 38:   5′- CAGTACGCGGAAAAATCC

SEQ ID No. 39:   5′- AGAAAACCAGTACGCGGA

SEQ ID No. 40:   5′- GGCCCGGTCGGAAGAAAA

SEQ ID No. 41:   5′- ATAAACACCACCCGATCC

SEQ ID No. 42:   5′- ACGCGGAAAAATCCGGAC

SEQ ID No. 43:   5′- GAGAGGCCCGGTCGGAAG

SEQ ID No. 44:   5′- AGAGGCCCGGTCGGAAGA

SEQ ID No. 45:   5′- GAGGCCCGGTCGGAAGAA

SEQ ID No. 46:   5′- AGGCCCGGTCGGAAGAAA

SEQ ID No. 47:   5′- CCGAGTGGGTCAGTAAAT

SEQ ID No. 48:   5′- CCAGTACGCGGAAAAATC

SEQ ID No. 49:   5′- TAAACACCACCCGATCCC

SEQ ID No. 50:   5′- GGAGAGGCCCGGTCGGAA

SEQ ID No. 51:   5′- GAAAACCAGTACGCGGAA

SEQ ID No. 52:   5′- TACGCGGAAAAATCCGGA

SEQ ID No. 53:   5′- GGCCACAGGGACCCAGGG

SEQ ID No. 54:   5′- TCACCAAGGGCCACAGGG

SEQ ID No. 55:   5′- GGGCCACAGGGACCCAGG

SEQ ID No. 56:   5′- TTCACCAAGGGCCACAGG

SEQ ID No. 57:   5′- ACAGGGACCCAGGGCTAG

SEQ ID No. 58:   5′- AGGGCCACAGGGACCCAG

SEQ ID No. 59:   5′- GTTCACCAAGGGCCACAG

SEQ ID No. 60:   5′- GCCACAGGGACCCAGGGC

SEQ ID No. 61:   5′- CAGGGACCCAGGGCTAGC

SEQ ID No. 62:   5′- AGGGACCCAGGGCTAGCC

SEQ ID No. 63:   5′- ACCAAGGGCCACAGGGAC

SEQ ID No. 64:   5′- CCACAGGGACCCAGGGCT

SEQ ID No. 65:   5′- CACAGGGACCCAGGGCTA

SEQ ID No. 66:   5′- CACCAAGGGCCACAGGGA

SEQ ID No. 67:   5′- GGGACCCAGGGCTAGCCA

SEQ ID No. 68:   5′- AGGAGAGGCCCGGTCGGA

SEQ ID No. 69:   5′- AAGGAGAGGCCCGGTCGG

SEQ ID No. 70:   5′- GAAGGAGAGGCCCGGTCG

SEQ ID No. 71:   5′- AGGGCTAGCCAGAAGGAG

SEQ ID No. 72:   5′- GGGCTAGCCAGAAGGAGA

SEQ ID No. 73:   5′- AGAAGGAGAGGCCCGGTC

SEQ ID No. 74:   5′- CAAGGGCCACAGGGACCC

SEQ ID No. 75:   5′- CCAAGGGCCACAGGGACC

SEQ ID No. 76:   5′- GTCGGAAAAACCAGTACG

SEQ ID No. 77:   5′- GCCCGGTCGGAAAAACCA

SEQ ID No. 78:   5′- CCGGTCGGAAAAACCAGT

SEQ ID No. 79:   5′- CCCGGTCGGAAAAACCAG

SEQ ID No. 80:   5′- TCGGAAAAACCAGTACGC

SEQ ID No. 81:   5′- CGGAAAAACCAGTACGCG

SEQ ID No. 82:   5′- GGAAAAACCAGTACGCGG

SEQ ID No. 83:   5′- GTACGCGGAAAAATCCGG

SEQ ID No. 84:   5′- AGTACGCGGAAAAATCCG

SEQ ID No. 85:   5′- GCGGAAAAATCCGGACCG

SEQ ID No. 86:   5′- GGTCGGAAAAACCAGTAC

SEQ ID No. 87:   5'- ACTCCTAGTGGTGCCCTT

SEQ ID No. 88:   5'- GCTCCACTCCTAGTGGTG

SEQ ID No. 89:   5'- CACTCCTAGTGGTGCCCT

SEQ ID No. 90:   5'- CTCCACTCCTAGTGGTGC

SEQ ID No. 91:   5'- TCCACTCCTAGTGGTGCC

SEQ ID No. 92:   5'- CCACTCCTAGTGGTGCCC

SEQ ID No. 93:   5'- GGCTCCACTCCTAGTGGT

SEQ ID No. 94:   5'- AGGCTCCACTCCTAGTGG

SEQ ID No. 95:   5'- GGCCCGGTCGGAAAAACC

SEQ ID No. 96:   5'- GAAAAACCAGTACGCGGA

SEQ ID No. 97:   5'- CGCGGAAAAATCCGGACC

SEQ ID No. 98:   5'- CAGTACGCGGAAAAATCC

SEQ ID No. 99:   5'- CGGTCGGAAAAACCAGTA

SEQ ID No. 100:   5'- AAGGCCCGGTCGGAAAAA

SEQ ID No. 101:   5'- CAGGCTCCACTCCTAGTG

SEQ ID No. 102:   5'- CTCCTAGTGGTGCCCTTC

SEQ ID No. 103:   5'- TCCTAGTGGTGCCCTTCC

SEQ ID No. 104:   5'- GCAGGCTCCACTCCTAGT

SEQ ID No. 105:   5'- AGGCCCGGTCGGAAAAAC

SEQ ID No. 106:   5'- ACGCGGAAAAATCCGGAC

SEQ ID No. 107:   5'- CCAGTACGCGGAAAAATC

SEQ ID No. 108:   5'- CTAGTGGTGCCCTTCCGT

SEQ ID No. 109:   5'- GAAAGGCCCGGTCGGAAA

SEQ ID No. 110:   5'- AAAGGCCCGGTCGGAAAA

SEQ ID No. 111:   5'- TACGCGGAAAAATCCGGA

SEQ ID No. 112:   5'- GGAAAGGCCCGGTCGGAA

SEQ ID No. 113:   5'- ATCTCTTCCGAAAGGTCG

SEQ ID No. 114:   5'- CATCTCTTCCGAAAGGTC

SEQ ID No. 115:   5'- CTCTTCCGAAAGGTCGAG

SEQ ID No. 116:   5'- CTTCCGAAAGGTCGAGAT

SEQ ID No. 117:   5′- TCTCTTCCGAAAGGTCGA

SEQ ID No. 118:   5′- TCTTCCGAAAGGTCGAGA

SEQ ID No. 119:   5′- CCTAGTGGTGCCCTTCCG

SEQ ID No. 120:   5′- TAGTGGTGCCCTTCCGTC

SEQ ID No. 121:   5′- AGTGGTGCCCTTCCGTCA

SEQ ID No. 122:   5′- GCCAAGGTTAGACTCGTT

SEQ ID No. 123:   5′- GGCCAAGGTTAGACTCGT

SEQ ID No. 124:   5′- CCAAGGTTAGACTCGTTG

SEQ ID No. 125:   5′- CAAGGTTAGACTCGTTGG

SEQ ID No. 126:   5′- AAGGTTAGACTCGTTGGC

SEQ ID No. 127:   5′- CTCGCCTCACGGGGTTCTCA

SEQ ID No. 128:   5′- GGCCCGGTCGAAATTAAA

SEQ ID No. 129:   5′- AGGCCCGGTCGAAATTAA

SEQ ID No. 130:   5′- AAGGCCCGGTCGAAATTA

SEQ ID No. 131:   5′- AAAGGCCCGGTCGAAATT

SEQ ID No. 132:   5′- GAAAGGCCCGGTCGAAAT

SEQ ID No. 133:   5′- ATATTCGAGCGAAACGCC

SEQ ID No. 134:   5′- GGAAAGGCCCGGTCGAAA

SEQ ID No. 135:   5′- AAAGATCCGGACCGGCCG

SEQ ID No. 136:   5′- GGAAAGATCCGGACCGGC

SEQ ID No. 137:   5′- GAAAGATCCGGACCGGCC

SEQ ID No. 138:   5′- GATCCGGACCGGCCGACC

SEQ ID No. 139:   5′- AGATCCGGACCGGCCGAC

SEQ ID No. 140:   5′- AAGATCCGGACCGGCCGA

SEQ ID No. 141:   5′- AGGAAAGGCCCGGTCGAA

SEQ ID No. 142:   5′- AAGGAAAGGCCCGGTCGA

SEQ ID No. 143:   5′-CGAGCAAAACGCCTGCTTTG

SEQ ID No. 144:   5′-CGCTCTGAAAGAGAGTTGCC

SEQ ID No. 145:   5′-AGTTGCCCCTACACTAGAC

SEQ ID No. 146:   5′-GCTTCTCCGTCCCGCGCCG

SEQ ID No. 148:   5´- CCTGGTTCGCCAAAAAGGC

SEQ ID No. 149:   5´-GATTCTCGGCCCCATGGG

SEQ ID No. 150:   5´- ACCCTCTACGGCAGCCTGTT

SEQ ID No. 151:   5´- GATCGGTCTCCAGCGATTCA

SEQ ID No. 152:   5´- ACCCTCCACGGCGGCCTGTT

SEQ ID No. 153:   5´- GATTCTCCGCGCCATGGG

SEQ ID No. 154:   5´- TCATCAGACGGGATTCTCAC

SEQ ID No. 157:   5´-AGTTGCCCCTCCTCTAAGC

SEQ ID No. 158:   5´-CTGCCACAAGGACAAATGGT

SEQ ID No. 159:   5´-TGCCCCTCTTCTAAGCAAAT

SEQ ID No. 160:   5´-CCCCAAAGTTGCCCTCTC

SEQ ID No. 163:   5`-AAGACCAGGCCACCTCAT

SEQ ID No. 164:   5`- CATCATAGAACACCGTCC

SEQ ID No. 165:   5`- CCTTCCGAAGTCGAGGTTTT

SEQ ID No. 166:   5`- GGGAGTGTTGCCAACTC

SEQ ID No. 167:   5`- AGCGGTCGTTCGCAACCCT

SEQ ID No. 168:   5`- CCGAAGTCGGGGTTTTGCGG

SEQ ID No. 169:   5´- GATAGCCGAAACCACCTTTC

SEQ ID No. 170:   5´- GCCGAAACCACCTTTCAAAC

SEQ ID No. 171:   5´- GTGATAGCCGAAACCACCTT

SEQ ID No. 172:   5´- AGTGATAGCCGAAACCACCT

SEQ ID No. 173:   5´- TTTAACGGGATGCGTTCGAC

SEQ ID No. 174:   5´- AAGTGATAGCCGAAACCACC

SEQ ID No. 175:   5´- GGTTGAATACCGTCAACGTC

SEQ ID No. 176:   5´- GCACAGTATGTCAAGACCTG

SEQ ID No. 177:   5´- CATCCGATGTGCAAGCACTT

SEQ ID No. 178:   5´- TCATCCGATGTGCAAGCACT

SEQ ID No. 179:   5´- CCGATGTGCAAGCACTTCAT

SEQ ID No. 180:   5´- CCACTCATCCGATGTGCAAG

SEQ ID No. 181:   5´- GCCACAGTTCGCCACTCATC

SEQ ID No. 182:	5′- CCTCCGCGTTTGTCACCGGC
SEQ ID No. 183:	5′- ACCAGTTCGCCACAGTTCGC
SEQ ID No. 184:	5′- CACTCATCCGATGTGCAAGC
SEQ ID No. 185:	5′- CCAGTTCGCCACAGTTCGCC
SEQ ID No. 186:	5′- CTCATCCGATGTGCAAGCAC
SEQ ID No. 187:	5′- TCCGATGTGCAAGCACTTCA
SEQ ID No. 188:	5′- CGCCACTCATCCGATGTGCA
SEQ ID No. 189:	5′- CAGTTCGCCACAGTTCGCCA
SEQ ID No. 190:	5′- GCCACTCATCCGATGTGCAA
SEQ ID No. 191:	5′- CGCCACAGTTCGCCACTCAT
SEQ ID No. 192:	5′- ATCCGATGTGCAAGCACTTC
SEQ ID No. 193:	5′- GTTCGCCACAGTTCGCCACT
SEQ ID No. 194:	5′- TCCTCCGCGTTTGTCACCGG
SEQ ID No. 195:	5′- CGCCAGGGTTCATCCTGAGC
SEQ ID No. 196:	5′- AGTTCGCCACAGTTCGCCAC
SEQ ID No. 197:	5′- TCGCCACAGTTCGCCACTCA
SEQ ID No. 198:	5′- TTAACGGGATGCGTTCGACT
SEQ ID No. 199:	5′- TCGCCACTCATCCGATGTGC
SEQ ID No. 200:	5′- CCACAGTTCGCCACTCATCC
SEQ ID No. 201:	5′- GATTTAACGGGATGCGTTCG
SEQ ID No. 202:	5′- TAACGGGATGCGTTCGACTT
SEQ ID No. 203:	5′- AACGGGATGCGTTCGACTTG
SEQ ID No. 204:	5′- CGAAGGTTACCGAACCGACT
SEQ ID No. 205:	5′- CCGAAGGTTACCGAACCGAC
SEQ ID No. 206:	5′- CCCGAAGGTTACCGAACCGA
SEQ ID No. 207:	5′- TTCCTCCGCGTTTGTCACCG
SEQ ID No. 208:	5′- CCGCCAGGGTTCATCCTGAG
SEQ ID No. 209:	5′- TCCTTCCAGAAGTGATAGCC
SEQ ID No. 210:	5′- CACCAGTTCGCCACAGTTCG
SEQ ID No. 211:	5′- ACGGGATGCGTTCGACTTGC

SEQ ID No. 212:   5′- GTCCTTCCAGAAGTGATAGC

SEQ ID No. 213:   5′- GCCAGGGTTCATCCTGAGCC

SEQ ID No. 214:   5′- ACTCATCCGATGTGCAAGCA

SEQ ID No. 215:   5′- ATCATTGCCTTGGTGAACCG

SEQ ID No. 216:   5′- TCCGCGTTTGTCACCGGCAG

SEQ ID No. 217:   5′- TGAACCGTTACTCCACCAAC

SEQ ID No. 218:   5′- GAAGTGATAGCCGAAACCAC

SEQ ID No. 219:   5′- CCGCGTTTGTCACCGGCAGT

SEQ ID No. 220:   5′- TTCGCCACTCATCCGATGTG

SEQ ID No. 221:   5′- CATTTAACGGGATGCGTTCG

SEQ ID No. 222:   5′- CACAGTTCGCCACTCATCCG

SEQ ID No. 223:   5′- TTCGCCACAGTTCGCCACTC

SEQ ID No. 224:   5′- CTCCGCGTTTGTCACCGGCA

SEQ ID No. 225:   5′- ACGCCGCCAGGGTTCATCCT

SEQ ID No. 226:   5′- CCTTCCAGAAGTGATAGCCG

SEQ ID No. 227:   5′- TCATTGCCTTGGTGAACCGT

SEQ ID No. 228:   5′- CACAGTATGTCAAGACCTGG

SEQ ID No. 229:   5′- TTGGTGAACCGTTACTCCAC

SEQ ID No. 230:   5′- CTTGGTGAACCGTTACTCCA

SEQ ID No. 231:   5′- GTGAACCGTTACTCCACCAA

SEQ ID No. 232:   5′- GGCTCCCGAAGGTTACCGAA

SEQ ID No. 233:   5′- GAAGGTTACCGAACCGACTT

SEQ ID No. 234:   5′- TGGCTCCCGAAGGTTACCGA

SEQ ID No. 235:   5′- TAATACGCCGCGGGTCCTTC

SEQ ID No. 236:   5′- GAACCGTTACTCCACCAACT

SEQ ID No. 237:   5′- TACGCCGCGGGTCCTTCCAG

SEQ ID No. 238:   5′- TCACCAGTTCGCCACAGTTC

SEQ ID No. 239:   5′- CCTTGGTGAACCGTTACTCC

SEQ ID No. 240:   5′- CTCACCAGTTCGCCACAGTT

SEQ ID No. 241:   5′- CGCCGCCAGGGTTCATCCTG

SEQ ID No. 242:   5'- CCTTGGTGAACCATTACTCC

SEQ ID No. 243:   5'- TGGTGAACCATTACTCCACC

SEQ ID No. 244:   5'- GCCGCCAGGGTTCATCCTGA

SEQ ID No. 245:   5'- GGTGAACCATTACTCCACCA

SEQ ID No. 246:   5'- CCAGGGTTCATCCTGAGCCA

SEQ ID No. 247:   5'- AATACGCCGCGGGTCCTTCC

SEQ ID No. 248:   5'- CACGCCGCCAGGGTTCATCC

SEQ ID No. 249:   5'- AGTTCGCCACTCATCCGATG

SEQ ID No. 250:   5'- CGGGATGCGTTCGACTTGCA

SEQ ID No. 251:   5'- CATTGCCTTGGTGAACCGTT

SEQ ID No. 252:   5'- GCACGCCGCCAGGGTTCATC

SEQ ID No. 253:   5'- CTTCCTCCGCGTTTGTCACC

SEQ ID No. 254:   5'- TGGTGAACCGTTACTCCACC

SEQ ID No. 255:   5'- CCTTCCTCCGCGTTTGTCAC

SEQ ID No. 256:   5'- ACGCCGCGGGTCCTTCCAGA

SEQ ID No. 257:   5'- GGTGAACCGTTACTCCACCA

SEQ ID No. 258:   5'- GGGTCCTTCCAGAAGTGATA

SEQ ID No. 259:   5'- CTTCCAGAAGTGATAGCCGA

SEQ ID No. 260:   5'- GCCTTGGTGAACCATTACTC

SEQ ID No. 261:   5'- ACAGTTCGCCACTCATCCGA

SEQ ID No. 262:   5'- ACCTTCCTCCGCGTTTGTCA

SEQ ID No. 263:   5'- CGAACCGACTTTGGGTGTTG

SEQ ID No. 264:   5'- GAACCGACTTTGGGTGTTGC

SEQ ID No. 265:   5'- AGGTTACCGAACCGACTTTG

SEQ ID No. 266:   5'- ACCGAACCGACTTTGGGTGT

SEQ ID No. 267:   5'- TTACCGAACCGACTTTGGGT

SEQ ID No. 268:   5'- TACCGAACCGACTTTGGGTG

SEQ ID No. 269:   5'- GTTACCGAACCGACTTTGGG

SEQ ID No. 270:   5'- CCTTTCTGGTATGGTACCGTC

SEQ ID No. 271:   5'- TGCACCGCGGAYCCATCTCT

SEQ ID No. 272:   5'- AGTTGCAGTCCAGTAAGCCG

SEQ ID No. 273:   5'- GTTGCAGTCCAGTAAGCCGC

SEQ ID No. 274:   5'- CAGTTGCAGTCCAGTAAGCC

SEQ ID No. 275:   5'- TGCAGTCCAGTAAGCCGCCT

SEQ ID No. 276:   5'- TCAGTTGCAGTCCAGTAAGC

SEQ ID No. 277:   5'- TTGCAGTCCAGTAAGCCGCC

SEQ ID No. 278:   5'- GCAGTCCAGTAAGCCGCCTT

SEQ ID No. 279:   5'- GTCAGTTGCAGTCCAGTAAG

SEQ ID No. 280:   5'- CTCTAGGTGACGCCGAAGCG

SEQ ID No. 281:   5'- ATCTCTAGGTGACGCCGAAG

SEQ ID No. 282:   5'- TCTAGGTGACGCCGAAGCGC

SEQ ID No. 283:   5'- TCTCTAGGTGACGCCGAAGC

SEQ ID No. 284:   5'- CCATCTCTAGGTGACGCCGA

SEQ ID No. 285:   5'- CATCTCTAGGTGACGCCGAA

SEQ ID No. 286:   5'- TAGGTGACGCCGAAGCGCCT

SEQ ID No. 287:   5'- CTAGGTGACGCCGAAGCGCC

SEQ ID No. 288:   5'- CTTAGACGGCTCCTTCCTAA

SEQ ID No. 289:   5'- CCTTAGACGGCTCCTTCCTA

SEQ ID No. 290:   5'- ACGTCAGTTGCAGTCCAGTA

SEQ ID No. 291:   5'- CGTCAGTTGCAGTCCAGTAA

SEQ ID No. 292:   5'- ACGCCGAAGCGCCTTTTAAC

SEQ ID No. 293:   5'- GACGCCGAAGCGCCTTTTAA

SEQ ID No. 294:   5'- GCCGAAGCGCCTTTTAACTT

SEQ ID No. 295:   5'- CGCCGAAGCGCCTTTTAACT

SEQ ID No. 296:   5'- GTGACGCCGAAGCGCCTTTT

SEQ ID No. 297:   5'- TGACGCCGAAGCGCCTTTTA

SEQ ID No. 298:   5'- AGACGGCTCCTTCCTAAAAG

SEQ ID No. 299:   5'- ACGGCTCCTTCCTAAAAGGT

SEQ ID No. 300:   5'- GACGGCTCCTTCCTAAAAGG

SEQ ID No. 301:   5'- CCTTCCTAAAAGGTTAGGCC

SEQ ID No. 302:   5′- GGTGACGCCAAAGCGCCTTT

SEQ ID No. 303:   5′- AGGTGACGCCAAAGCGCCTT

SEQ ID No. 304:   5′- TAGGTGACGCCAAAGCGCCT

SEQ ID No. 305:   5′- CTCTAGGTGACGCCAAAGCG

SEQ ID No. 306:   5′- TCTAGGTGACGCCAAAGCGC

SEQ ID No. 307:   5′- CTAGGTGACGCCAAAGCGCC

SEQ ID No. 308:   5′- ACGCCAAAGCGCCTTTTAAC

SEQ ID No. 309:   5′- CGCCAAAGCGCCTTTTAACT

SEQ ID No. 310:   5′- TGACGCCAAAGCGCCTTTTA

SEQ ID No. 311:   5′- TCTCTAGGTGACGCCAAAGC

SEQ ID No. 312:   5′- GTGACGCCAAAGCGCCTTTT

SEQ ID No. 313:   5′- GACGCCAAAGCGCCTTTTAA

SEQ ID No. 314:   5′- ATCTCTAGGTGACGCCAAAG

SEQ ID No. 315:   5′- CATCTCTAGGTGACGCCAAA

SEQ ID No. 316:   5′- TCCATCTCTAGGTGACGCCA

SEQ ID No. 317:   5′- CCATCTCTAGGTGACGCCAA

SEQ ID No. 318:   5′- CTGCCTTAGACGGCTCCCCC

SEQ ID No. 319:   5′- CCTGCCTTAGACGGCTCCCC

SEQ ID No. 320:   5′- GTGTCATGCGACACTGAGTT

SEQ ID No. 321:   5′- TGTGTCATGCGACACTGAGT

SEQ ID No. 322:   5′- CTTTGTGTCATGCGACACTG

SEQ ID No. 323:   5′- TTGTGTCATGCGACACTGAG

SEQ ID No. 324:   5′- TGCCTTAGACGGCTCCCCCT

SEQ ID No. 325:   5′- AGACGGCTCCCCCTAAAAGG

SEQ ID No. 326:   5′- TAGACGGCTCCCCCTAAAAG

SEQ ID No. 327:   5′- GCCTTAGACGGCTCCCCCTA

SEQ ID No. 328:   5′- GCTCCCCCTAAAAGGTTAGG

SEQ ID No. 329:   5′- GGCTCCCCCTAAAAGGTTAG

SEQ ID No. 330:   5′- CTCCCCCTAAAAGGTTAGGC

SEQ ID No. 331:   5′- TCCCCCTAAAAGGTTAGGCC

SEQ ID No. 332:   5′- CCCTAAAAGGTTAGGCCACC

SEQ ID No. 333:   5′- CCCCTAAAAGGTTAGGCCAC

SEQ ID No. 334:   5′- CGGCTCCCCCTAAAAGGTTA

SEQ ID No. 335:   5′- CCCCCTAAAAGGTTAGGCCA

SEQ ID No. 336:   5′- CTTAGACGGCTCCCCCTAAA

SEQ ID No. 337:   5′- TTAGACGGCTCCCCCTAAAA

SEQ ID No. 338:   5′- GGGTTCGCAACTCGTTGTAT

SEQ ID No. 339:   5′- CCTTAGACGGCTCCCCCTAA

SEQ ID No. 340:   5′- ACGGCTCCCCCTAAAAGGTT

SEQ ID No. 341:   5′- GACGGCTCCCCCTAAAAGGT

SEQ ID No. 342:   5′- ACGCCGCAAGACCATCCTCT

SEQ ID No. 343:   5′- CTAATACGCCGCAAGACCAT

SEQ ID No. 344:   5′- TACGCCGCAAGACCATCCTC

SEQ ID No. 345:   5′- GTTACGATCTAGCAAGCCGC

SEQ ID No. 346:   5′- AATACGCCGCAAGACCATCC

SEQ ID No. 347:   5′- CGCCGCAAGACCATCCTCTA

SEQ ID No. 348:   5′- GCTAATACGCCGCAAGACCA

SEQ ID No. 349:   5′- ACCATCCTCTAGCGATCCAA

SEQ ID No. 350:   5′- TAATACGCCGCAAGACCATC

SEQ ID No. 351:   5′- AGCCATCCCTTTCTGGTAAG

SEQ ID No. 352:   5′- ATACGCCGCAAGACCATCCT

SEQ ID No. 353:   5′- AGTTACGATCTAGCAAGCCG

SEQ ID No. 354:   5′- AGCTAATACGCCGCAAGACC

SEQ ID No. 355:   5′- GCCGCAAGACCATCCTCTAG

SEQ ID No. 356:   5′- TTACGATCTAGCAAGCCGCT

SEQ ID No. 357:   5′- GACCATCCTCTAGCGATCCA

SEQ ID No. 358:   5′- TTGCTACGTCACTAGGAGGC

SEQ ID No. 359:   5′- ACGTCACTAGGAGGCGGAAA

SEQ ID No. 360:   5′- TTTGCTACGTCACTAGGAGG

SEQ ID No. 361:   5′- GCCATCCCTTTCTGGTAAGG

SEQ ID No. 362: 5'- TACGTCACTAGGAGGCGGAA

SEQ ID No. 363: 5'- CGTCACTAGGAGGCGGAAAC

SEQ ID No. 364: 5'- AAGACCATCCTCTAGCGATC

SEQ ID No. 365: 5'- GCACGTATTTAGCCATCCCT

SEQ ID No. 366: 5'- CTCTAGCGATCCAAAAGGAC

SEQ ID No. 367: 5'- CCTCTAGCGATCCAAAAGGA

SEQ ID No. 368: 5'- CCATCCTCTAGCGATCCAAA

SEQ ID No. 369: 5'- GGCACGTATTTAGCCATCCC

SEQ ID No. 370: 5'- TACGATCTAGCAAGCCGCTT

SEQ ID No. 371: 5'- CAGTTACGATCTAGCAAGCC

SEQ ID No. 372: 5'- CCGCAAGACCATCCTCTAGC

SEQ ID No. 373: 5'- CCATCCCTTTCTGGTAAGGT

SEQ ID No. 374: 5'- AGACCATCCTCTAGCGATCC

SEQ ID No. 375: 5'- CAAGACCATCCTCTAGCGAT

SEQ ID No. 376: 5'- GCTACGTCACTAGGAGGCGG

SEQ ID No. 377: 5'- TGCTACGTCACTAGGAGGCG

SEQ ID No. 378: 5'- CTACGTCACTAGGAGGCGGA

SEQ ID No. 379: 5'- CCTCAACGTCAGTTACGATC

SEQ ID No. 380: 5'- GTCACTAGGAGGCGGAAACC

SEQ ID No. 381: 5'- TCCTCTAGCGATCCAAAAGG

SEQ ID No. 382: 5'- TGGCACGTATTTAGCCATCC

SEQ ID No. 383: 5'- ACGATCTAGCAAGCCGCTTT

SEQ ID No. 384: 5'- GCCAGTCTCTCAACTCGGCT

SEQ ID No. 385: 5'- AAGCTAATACGCCGCAAGAC

SEQ ID No. 386: 5'- GTTTGCTACGTCACTAGGAG

SEQ ID No. 387: 5'- CGCCACTCTAGTCATTGCCT

SEQ ID No. 388: 5'- GGCCAGCCAGTCTCTCAACT

SEQ ID No. 389: 5'- CAGCCAGTCTCTCAACTCGG

SEQ ID No. 390: 5'- CCCGAAGATCAATTCAGCGG

SEQ ID No. 391: 5'- CCGGCCAGTCTCTCAACTCG

SEQ ID No. 392:   5′- CCAGCCAGTCTCTCAACTCG

SEQ ID No. 393:   5′- TCATTGCCTCACTTCACCCG

SEQ ID No. 394:   5′- GCCAGCCAGTCTCTCAACTC

SEQ ID No. 395:   5′- CACCCGAAGATCAATTCAGC

SEQ ID No. 396:   5′- GTCATTGCCTCACTTCACCC

SEQ ID No. 397:   5′- CATTGCCTCACTTCACCCGA

SEQ ID No. 398:   5′- ATTGCCTCACTTCACCCGAA

SEQ ID No. 399:   5′- CGAAGATCAATTCAGCGGCT

SEQ ID No. 400:   5′- AGTCATTGCCTCACTTCACC

SEQ ID No. 401:   5′- TCGCCACTCTAGTCATTGCC

SEQ ID No. 402:   5′- TTGCCTCACTTCACCCGAAG

SEQ ID No. 403:   5′- CGGCCAGTCTCTCAACTCGG

SEQ ID No. 404:   5′- CTGGCACGTATTTAGCCATC

SEQ ID No. 405:   5′- ACCCGAAGATCAATTCAGCG

SEQ ID No. 406:   5′- TCTAGCGATCCAAAAGGACC

SEQ ID No. 407:   5′- CTAGCGATCCAAAAGGACCT

SEQ ID No. 408:   5′- GCACCCATCGTTACGGTAT

SEQ ID No. 409:   5′- CACCCATCGTTACGGTATG

SEQ ID No. 410:   5′- GCCACTCTAGTCATTGCCTC

SEQ ID No. 411:   5′- CGTTTGCTACGTCACTAGGA

SEQ ID No. 412:   5′- GCCTCAACGTCAGTTACGAT

SEQ ID No. 413:   5′- GCCGGCCAGTCTCTCAACTC

SEQ ID No. 414:   5′- TCACTAGGAGGCGGAAACCT

SEQ ID No. 415:   5′- AGCCTCAACGTCAGTTACGA

SEQ ID No. 416:   5′- AGCCAGTCTCTCAACTCGGC

SEQ ID No. 417:   5′- GGCCAGTCTCTCAACTCGGC

SEQ ID No. 418:   5′- CAAGCTAATACGCCGCAAGA

SEQ ID No. 419:   5′- TTCGCCACTCTAGTCATTGC

SEQ ID No. 420:   5′- CCGAAGATCAATTCAGCGGC

SEQ ID No. 421:   5′- CGCAAGACCATCCTCTAGCG

SEQ ID No. 422: 5'- GCAAGACCATCCTCTAGCGA

SEQ ID No. 423: 5'- GCGTTTGCTACGTCACTAGG

SEQ ID No. 424: 5'- CCACTCTAGTCATTGCCTCA

SEQ ID No. 425: 5'- CACTCTAGTCATTGCCTCAC

SEQ ID No. 426: 5'- CCAGTCTCTCAACTCGGCTA

SEQ ID No. 427: 5'- TTACCTTAGGCACCGGCCTC

SEQ ID No. 428: 5'- ACAAGCTAATACGCCGCAAG

SEQ ID No. 429: 5'- TTTACCTTAGGCACCGGCCT

SEQ ID No. 430: 5'- TTTTACCTTAGGCACCGGCC

SEQ ID No. 431: 5'- ATTTTACCTTAGGCACCGGC

SEQ ID No. 432: 5'- GATTTTACCTTAGGCACCGG

SEQ ID No. 433: 5'- CTCACTTCACCCGAAGATCA

SEQ ID No. 434: 5'- ACGCCACCAGCGTTCATCCT

SEQ ID No. 435: 5'- GCCAAGCGACTTTGGGTACT

SEQ ID No. 436: 5'- CGGAAAATTCCCTACTGCAG

SEQ ID No. 437: 5'- CGATCTAGCAAGCCGCTTTC

SEQ ID No. 438: 5'- GGTACCGTCAAGCTGAAAAC

SEQ ID No. 439: 5'- TGCCTCACTTCACCCGAAGA

SEQ ID No. 440: 5'- GGCCGGCCAGTCTCTCAACT

SEQ ID No. 441: 5'- GGTAAGGTACCGTCAAGCTG

SEQ ID No. 442: 5'- GTAAGGTACCGTCAAGCTGA

SEQ ID No. 443: 5'- CCGCAAGACCATCCTCTAGG

SEQ ID No. 444: 5'- ATTTAGCCATCCCTTTCTGG

SEQ ID No. 445: 5'- AACCCTTCATCACACACG

SEQ ID No. 446: 5'- CGAAACCCTTCATCACAC

SEQ ID No. 447: 5'- ACCCTTCATCACACACGC

SEQ ID No. 448: 5'- TACCGTCACACACTGAAC

SEQ ID No. 449: 5'- AGATACCGTCACACACTG

SEQ ID No. 450: 5'- CACTCAAGGGCGGAAACC

SEQ ID No. 451: 5'- ACCGTCACACACTGAACA

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SEQ ID No. 452:   5'- CGTCACACACTGAACAGT

SEQ ID No. 453:   5'- CCGAAACCCTTCATCACA

SEQ ID No. 454:   5'- CCGTCACACACTGAACAG

SEQ ID No. 455:   5'- GATACCGTCACACACTGA

SEQ ID No. 456:   5'- GGTAAGATACCGTCACAC

SEQ ID No. 457:   5'- CCCTTCATCACACACGCG

SEQ ID No. 458:   5'- ACAGTGTTTTACGAGCCG

SEQ ID No. 459:   5'- CAGTGTTTTACGAGCCGA

SEQ ID No. 460:   5'- ACAAAGCGTTCGACTTGC

SEQ ID No. 461:   5'- CGGATAACGCTTGGAACA

SEQ ID No. 462:   5'- AGGGCGGAAACCCTCGAA

SEQ ID No. 463:   5'- GGGCGGAAACCCTCGAAC

SEQ ID No. 464:   5'- GGCGGAAACCCTCGAACA

SEQ ID No. 465:   5'- TGAGGGCTTTCACTTCAG

SEQ ID No. 466:   5'- AGGGCTTTCACTTCAGAC

SEQ ID No. 467:   5'- GAGGGCTTTCACTTCAGA

SEQ ID No. 468:   5'- ACTGCACTCAAGTCATCC

SEQ ID No. 469:   5'- CCGGATAACGCTTGGAAC

SEQ ID No. 470:   5'- TCCGGATAACGCTTGGAA

SEQ ID No. 471:   5'- TATCCCCTGCTAAGAGGT

SEQ ID No. 472:   5'- CCTGCTAAGAGGTAGGTT

SEQ ID No. 473:   5'- CCCTGCTAAGAGGTAGGT

SEQ ID No. 474:   5'- CCCCTGCTAAGAGGTAGG

SEQ ID No. 475:   5'- TCCCCTGCTAAGAGGTAG

SEQ ID No. 476:   5'- ATCCCCTGCTAAGAGGTA

SEQ ID No. 477:   5'- CCGTTCCTTTCTGGTAAG

SEQ ID No. 478:   5'- GCCGTTCCTTTCTGGTAA

SEQ ID No. 479:   5'- AGCCGTTCCTTTCTGGTA

SEQ ID No. 480:   5'- GCACGTATTTAGCCGTTC

SEQ ID No. 481:   5'- CACGTATTTAGCCGTTCC

SEQ ID No. 482:   5′- GGCACGTATTTAGCCGTT

SEQ ID No. 483:   5′- CACTTTCCTCTACTGCAC

SEQ ID No. 484:   5′- CCACTTTCCTCTACTGCA

SEQ ID No. 485:   5′- TCCACTTTCCTCTACTGC

SEQ ID No. 486:   5′- CTTTCCTCTACTGCACTC

SEQ ID No. 487:   5′- TAGCCGTTCCTTTCTGGT

SEQ ID No. 488:   5′- TTAGCCGTTCCTTTCTGG

SEQ ID No. 489:   5′- TTATCCCTGCTAAGAGG

SEQ ID No. 490:   5′- GTTATCCCTGCTAAGAG

SEQ ID No. 491:   5′- CCCGTTCGCCACTCTTTG

SEQ ID No. 492:   5′- AGCTGAGGGCTTTCACTT

SEQ ID No. 493:   5′- GAGCTGAGGGCTTTCACT

SEQ ID No. 494:   5′- GCTGAGGGCTTTCACTTC

SEQ ID No. 495:   5′- CTGAGGGCTTTCACTTCA

SEQ ID No. 496:   5′ CCCGTGTCCCGAAGGAAC

SEQ ID No. 497:   5′ GCACGAGTATGTCAAGAC

SEQ ID No. 498:   5′ GTATCCCGTGTCCCGAAG

SEQ ID No. 499:   5′ TCCCGTGTCCCGAAGGAA

SEQ ID No. 500:   5′ ATCCCGTGTCCCGAAGGA

SEQ ID No. 501:   5′ TATCCCGTGTCCCGAAGG

SEQ ID No. 502:   5′ CTTACCTTAGGAAGCGCC

SEQ ID No. 503:   5′ TTACCTTAGGAAGCGCCC

SEQ ID No. 504:   5′ CCTGTATCCCGTGTCCCG

SEQ ID No. 505:   5′ CCACCTGTATCCCGTGTC

SEQ ID No. 506:   5′ CACCTGTATCCCGTGTCC

SEQ ID No. 507:   5′ ACCTGTATCCCGTGTCCC

SEQ ID No. 508:   5′ CTGTATCCCGTGTCCCGA

SEQ ID No. 509:   5′ TGTATCCCGTGTCCCGAA

SEQ ID No. 510:   5′ CACGAGTATGTCAAGACC

SEQ ID No. 511:   5′ CGGTCTTACCTTAGGAAG

SEQ ID No. 512:   5′ TAGGAAGCGCCCTCCTTG

SEQ ID No. 513:   5′ AGGAAGCGCCCTCCTTGC

SEQ ID No. 514:   5′ TTAGGAAGCGCCCTCCTT

SEQ ID No. 515:   5′ CTTAGGAAGCGCCCTCCT

SEQ ID No. 516:   5′ CCTTAGGAAGCGCCCTCC

SEQ ID No. 517:   5′ ACCTTAGGAAGCGCCCTC

SEQ ID No. 518:   5′ TGCACACAATGGTTGAGC

SEQ ID No. 519:   5′ TACCTTAGGAAGCGCCCT

SEQ ID No. 520:   5′ ACCACCTGTATCCCGTGT

SEQ ID No. 521:   5′ GCACCACCTGTATCCCGT

SEQ ID No. 522:   5′ CACCACCTGTATCCCGTG

SEQ ID No. 523:   5′ GCGGTTAGGCAACCTACT

SEQ ID No. 524:   5′ TGCGGTTAGGCAACCTAC

SEQ ID No. 525:   5′ TTGCGGTTAGGCAACCTA

SEQ ID No. 526:   5′ GGTCTTACCTTAGGAAGC

SEQ ID No. 527:   5′ GCTAATACAACGCGGGAT

SEQ ID No. 528:   5′ CTAATACAACGCGGGATC

SEQ ID No. 529:   5′ ATACAACGCGGGATCATC

SEQ ID No. 530:   5′ CGGTTAGGCAACCTACTT

SEQ ID No. 531:   5′ TGCACCACCTGTATCCCG

SEQ ID No. 532:   5′ GAAGCGCCCTCCTTGCGG

SEQ ID No. 533:   5′ GGAAGCGCCCTCCTTGCG

SEQ ID No. 534:   5′ CGTCCCTTTCTGGTTAGA

SEQ ID No. 535:   5′ AGCTAATACAACGCGGGA

SEQ ID No. 536:   5′ TAGCTAATACAACGCGGG

SEQ ID No. 537:   5′ CTAGCTAATACAACGCGG

SEQ ID No. 538:   5′ GGCTATGTATCATCGCCT

SEQ ID No. 539:   5′ GAGCCACTGCCTTTTACA

SEQ ID No. 540:   5′ GTCGGCTATGTATCATCG

SEQ ID No. 541:   5′ GGTCGGCTATGTATCATC

SEQ ID No. 542:   5′ CAGGTCGGCTATGTATCA

SEQ ID No. 543:   5′ CGGCTATGTATCATCGCC

SEQ ID No. 544:   5′ TCGGCTATGTATCATCGC

SEQ ID No. 545:   5′ GTCTTACCTTAGGAAGCG

SEQ ID No. 546:   5′ TCTTACCTTAGGAAGCGC

SEQ ID No. 547:   5′- GTACAAACCGCCTACACGCC

SEQ ID No. 548:   5′- TGTACAAACCGCCTACACGC

SEQ ID No. 549:   5′- GATCAGCACGATGTCGCCAT

SEQ ID No. 550:   5′- CTGTACAAACCGCCTACACG

SEQ ID No. 551:   5′- GAGATCAGCACGATGTCGCC

SEQ ID No. 552:   5′- AGATCAGCACGATGTCGCCA

SEQ ID No. 553:   5′- ATCAGCACGATGTCGCCATC

SEQ ID No. 554:   5′- TCAGCACGATGTCGCCATCT

SEQ ID No. 555:   5′- ACTGTACAAACCGCCTACAC

SEQ ID No. 556:   5′- CCGCCACTAAGGCCGAAACC

SEQ ID No. 557:   5′- CAGCACGATGTCGCCATCTA

SEQ ID No. 558:   5′- TACAAACCGCCTACACGCCC

SEQ ID No. 559:   5′- AGCACGATGTCGCCATCTAG

SEQ ID No. 560:   5′- CGGCTTTTAGAGATCAGCAC

SEQ ID No. 561:   5′- TCCGCCACTAAGGCCGAAAC

SEQ ID No. 562:   5′- GACTGTACAAACCGCCTACA

SEQ ID No. 563:   5′- GTCCGCCACTAAGGCCGAAA

SEQ ID No. 564:   5′- GGGGATTTCACATCTGACTG

SEQ ID No. 565:   5′- CATACAAGCCCTGGTAAGGT

SEQ ID No. 566:   5′- ACAAGCCCTGGTAAGGTTCT

SEQ ID No. 567:   5′- ACAAACCGCCTACACGCCCT

SEQ ID No. 568:   5′- CTGACTGTACAAACCGCCTA

SEQ ID No. 569:   5′- TGACTGTACAAACCGCCTAC

SEQ ID No. 570:   5′- ACGATGTCGCCATCTAGCTT

SEQ ID No. 571:   5′- CACGATGTCGCCATCTAGCT

SEQ ID No. 572:   5'- CGATGTCGCCATCTAGCTTC

SEQ ID No. 573:   5'- GCACGATGTCGCCATCTAGC

SEQ ID No. 574:   5'- GATGTCGCCATCTAGCTTCC

SEQ ID No. 575:   5'- ATGTCGCCATCTAGCTTCCC

SEQ ID No. 576:   5'- TGTCGCCATCTAGCTTCCCA

SEQ ID No. 577:   5'- GCCATCTAGCTTCCCACTGT

SEQ ID No. 578:   5'- TCGCCATCTAGCTTCCCACT

SEQ ID No. 579:   5'- CGCCATCTAGCTTCCCACTG

SEQ ID No. 580:   5'- GTCGCCATCTAGCTTCCCAC

SEQ ID No. 581:   5'- TACAAGCCCTGGTAAGGTTC

SEQ ID No. 582:   5'- GCCACTAAGGCCGAAACCTT

SEQ ID No. 583:   5'- ACTAAGGCCGAAACCTTCGT

SEQ ID No. 584:   5'- CTAAGGCCGAAACCTTCGTG

SEQ ID No. 585:   5'- CACTAAGGCCGAAACCTTCG

SEQ ID No. 586:   5'- AAGGCCGAAACCTTCGTGCG

SEQ ID No. 587:   5'- CCACTAAGGCCGAAACCTTC

SEQ ID No. 588:   5'- TAAGGCCGAAACCTTCGTGC

SEQ ID No. 589:   5'- AGGCCGAAACCTTCGTGCGA

SEQ ID No. 590:   5'- TCTGACTGTACAAACCGCCT

SEQ ID No. 591:   5'- CATCTGACTGTACAAACCGC

SEQ ID No. 592:   5'- ATCTGACTGTACAAACCGCC

SEQ ID No. 593:   5'- CTTCGTGCGACTTGCATGTG

SEQ ID No. 594:   5'- CCTTCGTGCGACTTGCATGT

SEQ ID No. 595:   5'- CTCTCTAGAGTGCCCACCCA

SEQ ID No. 596:   5'- TCTCTAGAGTGCCCACCCAA

SEQ ID No. 597:   5'- ACGTATCAAATGCAGCTCCC

SEQ ID No. 598:   5'- CGTATCAAATGCAGCTCCCA

SEQ ID No. 599:   5'- CGCCACTAAGGCCGAAACCT

SEQ ID No. 600:   5'- CCGAAACCTTCGTGCGACTT

SEQ ID No. 601:   5'- GCCGAAACCTTCGTGCGACT

SEQ ID No. 602:   5'- AACCTTCGTGCGACTTGCAT

SEQ ID No. 603:   5'- CGAAACCTTCGTGCGACTTG

SEQ ID No. 604:   5'- ACCTTCGTGCGACTTGCATG

SEQ ID No. 605:   5'- GAAACCTTCGTGCGACTTGC

SEQ ID No. 606:   5'- GGCCGAAACCTTCGTGCGAC

SEQ ID No. 607:   5'- AAACCTTCGTGCGACTTGCA

SEQ ID No. 608:   5'- CACGTATCAAATGCAGCTCC

SEQ ID No. 609:   5'- GCTCACCGGCTTAAGGTCAA

SEQ ID No. 610:   5'- CGCTCACCGGCTTAAGGTCA

SEQ ID No. 611:   5'- TCGCTCACCGGCTTAAGGTC

SEQ ID No. 612:   5'- CTCACCGGCTTAAGGTCAAA

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SEQ ID No. 614:   5'- GCTCACCGGCTTAAGGTCAA

SEQ ID No. 615:   5'- CGCTCACCGGCTTAAGGTCA

SEQ ID No. 616:   5'- TCGCTCACCGGCTTAAGGTC

SEQ ID No. 617:   5'- CTCACCGGCTTAAGGTCAAA

SEQ ID No. 618:   5'- CCCGACCGTGGTCGGCTGCG

SEQ ID No. 619:   5'- TCACCGGCTTAAGGTCAAAC

SEQ ID No. 620:   5'- CAACCCTCTCTCACACTCTA

SEQ ID No. 621:   5'- ACAACCCTCTCTCACACTCT

SEQ ID No. 622:   5'- CCACAACCCTCTCTCACACT

SEQ ID No. 623:   5'- AACCCTCTCTCACACTCTAG

SEQ ID No. 624:   5'- CACAACCCTCTCTCACACTC

SEQ ID No. 625:   5'- TCCACAACCCTCTCTCACAC

SEQ ID No. 626:   5'- TTCCACAACCCTCTCTCACA

SEQ ID No. 627:   5'- ACCCTCTCTCACACTCTAGT

SEQ ID No. 628:   5'- GAGCCAGGTTGCCGCCTTCG

SEQ ID No. 629:   5'- AGGTCAAACCAACTCCCATG

SEQ ID No. 630:   5'- ATGAGCCAGGTTGCCGCCTT

SEQ ID No. 631:   5'- TGAGCCAGGTTGCCGCCTTC

SEQ ID No. 632:   5′- AGGCTCCTCCACAGGCGACT

SEQ ID No. 633:   5′- CAGGCTCCTCCACAGGCGAC

SEQ ID No. 634:   5′- GCAGGCTCCTCCACAGGCGA

SEQ ID No. 635:   5′- TTCGCTCACCGGCTTAAGGT

SEQ ID No. 636:   5′- GTTCGCTCACCGGCTTAAGG

SEQ ID No. 637:   5′- GGTTCGCTCACCGGCTTAAG

SEQ ID No. 638:   5′- ATTCCACAACCCTCTCTCAC

SEQ ID No. 639:   5′- TGACCCGACCGTGGTCGGCT

SEQ ID No. 640:   5′- CCCTCTCTCACACTCTAGTC

SEQ ID No. 641:   5′- GAATTCCACAACCCTCTCTC

SEQ ID No. 642:   5′- AGCCAGGTTGCCGCCTTCGC

SEQ ID No. 643:   5′- GCCAGGTTGCCGCCTTCGCC

SEQ ID No. 644:   5′- GGAATTCCACAACCCTCTCT

SEQ ID No. 645:   5′- GGGAATTCCACAACCCTCTC

SEQ ID No. 646:   5′- AACGCAGGCTCCTCCACAGG

SEQ ID No. 647:   5′- CGGCTTAAGGTCAAACCAAC

SEQ ID No. 648:   5′- CCGGCTTAAGGTCAAACCAA

SEQ ID No. 649:   5′- CACCGGCTTAAGGTCAAACC

SEQ ID No. 650:   5′- ACCGGCTTAAGGTCAAACCA

SEQ ID No. 651:   5′- ACCCAACATCCAGCACACAT

SEQ ID No. 652:   5′- TCGCTGACCCGACCGTGGTC

SEQ ID No. 653:   5′- CGCTGACCCGACCGTGGTCG

SEQ ID No. 654:   5′- GACCCGACCGTGGTCGGCTG

SEQ ID No. 655:   5′- GCTGACCCGACCGTGGTCGG

SEQ ID No. 656:   5′- CTGACCCGACCGTGGTCGGC

SEQ ID No. 657:   5′- CAGGCGACTTGCGCCTTTGA

SEQ ID No. 658:   5′- TCATGCGGTATTAGCTCCAG

SEQ ID No. 659:   5′- ACTAGCTAATCGAACGCAGG

SEQ ID No. 660:   5′- CATGCGGTATTAGCTCCAGT

SEQ ID No. 661:   5′- CGCAGGCTCCTCCACAGGCG

SEQ ID No. 662:   5'- ACGCAGGCTCCTCCACAGGC

SEQ ID No. 663:   5'- CTCAGGTGTCATGCGGTATT

SEQ ID No. 664:   5'- CGCCTTTGACCCTCAGGTGT

SEQ ID No. 665:   5'- ACCCTCAGGTGTCATGCGGT

SEQ ID No. 666:   5'- CCTCAGGTGTCATGCGGTAT

SEQ ID No. 667:   5'- TTTGACCCTCAGGTGTCATG

SEQ ID No. 668:   5'- GACCCTCAGGTGTCATGCGG

SEQ ID No. 669:   5'- TGACCCTCAGGTGTCATGCG

SEQ ID No. 670:   5'- GCCTTTGACCCTCAGGTGTC

SEQ ID No. 671:   5'- TTGACCCTCAGGTGTCATGC

SEQ ID No. 672:   5'- CCCTCAGGTGTCATGCGGTA

SEQ ID No. 673:   5'- CCTTTGACCCTCAGGTGTCA

SEQ ID No. 674:   5'- CTTTGACCCTCAGGTGTCAT

SEQ ID No. 675:   5'- AGTTATCCCCCACCCATGGA

SEQ ID No. 676:   5'- CCAGCTATCGATCATCGCCT

SEQ ID No. 677:   5'- ACCAGCTATCGATCATCGCC

SEQ ID No. 678:   5'- CAGCTATCGATCATCGCCTT

SEQ ID No. 679:   5'- AGCTATCGATCATCGCCTTG

SEQ ID No. 680:   5'- GCTATCGATCATCGCCTTGG

SEQ ID No. 681:   5'- CTATCGATCATCGCCTTGGT

SEQ ID No. 682:   5'- TTCGTGCGACTTGCATGTGT

SEQ ID No. 683:   5'- TCGATCATCGCCTTGGTAGG

SEQ ID No. 684:   5'- ATCGATCATCGCCTTGGTAG

SEQ ID No. 685:   5'- CACAGGCGACTTGCGCCTTT

SEQ ID No. 686:   5'- CCACAGGCGACTTGCGCCTT

SEQ ID No. 687:   5'- TCCACAGGCGACTTGCGCCT

SEQ ID No. 688:   5'- TCCTCCACAGGCGACTTGCG

SEQ ID No. 689:   5'- CCTCCACAGGCGACTTGCGC

SEQ ID No. 690:   5'- CTCCACAGGCGACTTGCGCC

SEQ ID No. 691:   5'- ACAGGCGACTTGCGCCTTTG

SEQ ID No. 692:   5´- GCTCACCGGCTTAAGGTCAA

SEQ ID No. 693:   5´- CGCTCACCGGCTTAAGGTCA

SEQ ID No. 694:   5´- TCGCTCACCGGCTTAAGGTC

SEQ ID No. 695:   5´- CTCACCGGCTTAAGGTCAAA

SEQ ID No. 696:   5´- CCCGACCGTGGTCGGCTGCG

SEQ ID No. 697:   5´- TCACCGGCTTAAGGTCAAAC

SEQ ID No. 698:   5´- CAACCCTCTCTCACACTCTA

SEQ ID No. 699:   5´- ACAACCCTCTCTCACACTCT

SEQ ID No. 700:   5´- CCACAACCCTCTCTCACACT

SEQ ID No. 701:   5´- AACCCTCTCTCACACTCTAG

SEQ ID No. 702:   5´- CACAACCCTCTCTCACACTC

SEQ ID No. 703:   5´- TCCACAACCCTCTCTCACAC

SEQ ID No. 704:   5´- TTCCACAACCCTCTCTCACA

SEQ ID No. 705:   5´- ACCCTCTCTCACACTCTAGT

SEQ ID No. 706:   5´- GAGCCAGGTTGCCGCCTTCG

SEQ ID No. 707:   5´- AGGTCAAACCAACTCCCATG

SEQ ID No. 708:   5´- ATGAGCCAGGTTGCCGCCTT

SEQ ID No. 709:   5´- TGAGCCAGGTTGCCGCCTTC

SEQ ID No. 710:   5´- AGGCTCCTCCACAGGCGACT

SEQ ID No. 711:   5´- CAGGCTCCTCCACAGGCGAC

SEQ ID No. 712:   5´- GCAGGCTCCTCCACAGGCGA

SEQ ID No. 713:   5´- TTCGCTCACCGGCTTAAGGT

SEQ ID No. 714:   5´- GTTCGCTCACCGGCTTAAGG

SEQ ID No. 715:   5´- GGTTCGCTCACCGGCTTAAG

SEQ ID No. 716:   5´- ATTCCACAACCCTCTCTCAC

SEQ ID No. 717:   5´- TGACCCGACCGTGGTCGGCT

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SEQ ID No. 719:   5´- GAATTCCACAACCCTCTCTC

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SEQ ID No. 723:   5'- GGGAATTCCACAACCCTCTC

SEQ ID No. 724:   5'- AACGCAGGCTCCTCCACAGG

SEQ ID No. 725:   5'- CGGCTTAAGGTCAAACCAAC

SEQ ID No. 726:   5'- CCGGCTTAAGGTCAAACCAA

SEQ ID No. 727:   5'- CACCGGCTTAAGGTCAAACC

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SEQ ID No. 730:   5'- TCGCTGACCCGACCGTGGTC

SEQ ID No. 731:   5'- CGCTGACCCGACCGTGGTCG

SEQ ID No. 732:   5'- GACCCGACCGTGGTCGGCTG

SEQ ID No. 733:   5'- GCTGACCCGACCGTGGTCGG

SEQ ID No. 734:   5'- CTGACCCGACCGTGGTCGGC

SEQ ID No. 735:   5'- CAGGCGACTTGCGCCTTTGA

SEQ ID No. 736:   5'- TCATGCGGTATTAGCTCCAG

SEQ ID No. 737:   5'- ACTAGCTAATCGAACGCAGG

SEQ ID No. 738:   5'- CATGCGGTATTAGCTCCAGT

SEQ ID No. 739:   5'- CGCAGGCTCCTCCACAGGCG

SEQ ID No. 740:   5'- ACGCAGGCTCCTCCACAGGC

SEQ ID No. 741:   5'- CTCAGGTGTCATGCGGTATT

SEQ ID No. 742:   5'- CGCCTTTGACCCTCAGGTGT

SEQ ID No. 743:   5'- ACCCTCAGGTGTCATGCGGT

SEQ ID No. 744:   5'- CCTCAGGTGTCATGCGGTAT

SEQ ID No. 745:   5'- TTTGACCCTCAGGTGTCATG

SEQ ID No. 746:   5'- GACCCTCAGGTGTCATGCGG

SEQ ID No. 747:   5'- TGACCCTCAGGTGTCATGCG

SEQ ID No. 748:   5'- GCCTTTGACCCTCAGGTGTC

SEQ ID No. 749:   5'- TTGACCCTCAGGTGTCATGC

SEQ ID No. 750:   5'- CCCTCAGGTGTCATGCGGTA

SEQ ID No. 751:   5'- CCTTTGACCCTCAGGTGTCA

SEQ ID No. 752:   5'- CTTTGACCCTCAGGTGTCAT

SEQ ID No. 753:   5'- AGTTATCCCCCACCCATGGA

SEQ ID No. 754:   5'- CCAGCTATCGATCATCGCCT

SEQ ID No. 755:   5'- ACCAGCTATCGATCATCGCC

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SEQ ID No. 757:   5'- AGCTATCGATCATCGCCTTG

SEQ ID No. 758:   5'- GCTATCGATCATCGCCTTGG

SEQ ID No. 759:   5'- CTATCGATCATCGCCTTGGT

SEQ ID No. 760:   5'- TTCGTGCGACTTGCATGTGT

SEQ ID No. 761:   5'- TCGATCATCGCCTTGGTAGG

SEQ ID No. 762:   5'- ATCGATCATCGCCTTGGTAG

SEQ ID No. 763:   5'- CACAGGCGACTTGCGCCTTT

SEQ ID No. 764:   5'- CCACAGGCGACTTGCGCCTT

SEQ ID No. 765:   5'- TCCACAGGCGACTTGCGCCT

SEQ ID No. 766:   5'- TCCTCCACAGGCGACTTGCG

SEQ ID No. 767:   5'- CCTCCACAGGCGACTTGCGC

SEQ ID No. 768:   5'- CTCCACAGGCGACTTGCGCC

SEQ ID No. 769:   5'- ACAGGCGACTTGCGCCTTTG

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SEQ ID No. 771:   5'- CAACCCTCTCTCACACTCTA

SEQ ID No. 772:   5'- ACAACCCTCTCTCACACTCT

SEQ ID No. 773:   5'- CCACAACCCTCTCTCACACT

SEQ ID No. 774:   5'- AACCCTCTCTCACACTCTAG

SEQ ID No. 775:   5'- CACAACCCTCTCTCACACTC

SEQ ID No. 776:   5'- TCCACAACCCTCTCTCACAC

SEQ ID No. 777:   5'- TTCCACAACCCTCTCTCACA

SEQ ID No. 778:   5'- ACCCTCTCTCACACTCTAGT

SEQ ID No. 779:   5'- GAGCCAGGTTGCCGCCTTCG

SEQ ID No. 780:   5'- AGGTCAAACCAACTCCCATG

SEQ ID No. 781:   5'- ATGAGCCAGGTTGCCGCCTT

SEQ ID No. 782:   5′- TGAGCCAGGTTGCCGCCTTC

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SEQ ID No. 784:   5′- CAGGCTCCTCCACAGGCGAC

SEQ ID No. 785:   5′- GCAGGCTCCTCCACAGGCGA

SEQ ID No. 786:   5′- TTCGCTCACCGGCTTAAGGT

SEQ ID No. 787:   5′- GTTCGCTCACCGGCTTAAGG

SEQ ID No. 788:   5′- GGTTCGCTCACCGGCTTAAG

SEQ ID No. 789:   5′- ATTCCACAACCCTCTCTCAC

SEQ ID No. 790:   5′- TGACCCGACCGTGGTCGGCT

SEQ ID No. 791:   5′- CCCTCTCTCACACTCTAGTC

SEQ ID No. 792:   5′- GAATTCCACAACCCTCTCTC

SEQ ID No. 793:   5′- AGCCAGGTTGCCGCCTTCGC

SEQ ID No. 794:   5′- GCCAGGTTGCCGCCTTCGCC

SEQ ID No. 795:   5′- GGAATTCCACAACCCTCTCT

SEQ ID No. 796:   5′- GGGAATTCCACAACCCTCTC

SEQ ID No. 797:   5′- AACGCAGGCTCCTCCACAGG

SEQ ID No. 798:   5′- CGGCTTAAGGTCAAACCAAC

SEQ ID No. 799:   5′- CCGGCTTAAGGTCAAACCAA

SEQ ID No. 800:   5′- CACCGGCTTAAGGTCAAACC

SEQ ID No. 801:   5′- ACCGGCTTAAGGTCAAACCA

SEQ ID No. 802:   5′- ACCCAACATCCAGCACACAT

SEQ ID No. 803:   5′- TCGCTGACCCGACCGTGGTC

SEQ ID No. 804:   5′- CGCTGACCCGACCGTGGTCG

SEQ ID No. 805:   5′- GACCCGACCGTGGTCGGCTG

SEQ ID No. 806:   5′- GCTGACCCGACCGTGGTCGG

SEQ ID No. 807:   5′- CTGACCCGACCGTGGTCGGC

SEQ ID No. 808:   5′- CAGGCGACTTGCGCCTTTGA

SEQ ID No. 809:   5′- TCATGCGGTATTAGCTCCAG

SEQ ID No. 810:   5′- ACTAGCTAATCGAACGCAGG

SEQ ID No. 811:   5′- CATGCGGTATTAGCTCCAGT

SEQ ID No. 812: 5'- CGCAGGCTCCTCCACAGGCG

SEQ ID No. 813: 5'- ACGCAGGCTCCTCCACAGGC

SEQ ID No. 814: 5'- CTCAGGTGTCATGCGGTATT

SEQ ID No. 815: 5'- CGCCTTTGACCCTCAGGTGT

SEQ ID No. 816: 5'- ACCCTCAGGTGTCATGCGGT

SEQ ID No. 817: 5'- CCTCAGGTGTCATGCGGTAT

SEQ ID No. 818: 5'- TTTGACCCTCAGGTGTCATG

SEQ ID No. 819: 5'- GACCCTCAGGTGTCATGCGG

SEQ ID No. 820: 5'- TGACCCTCAGGTGTCATGCG

SEQ ID No. 821: 5'- GCCTTTGACCCTCAGGTGTC

SEQ ID No. 822: 5'- TTGACCCTCAGGTGTCATGC

SEQ ID No. 823: 5'- CCCTCAGGTGTCATGCGGTA

SEQ ID No. 824: 5'- CCTTTGACCCTCAGGTGTCA

SEQ ID No. 825: 5'- CTTTGACCCTCAGGTGTCAT

SEQ ID No. 826: 5'- AGTTATCCCCCACCCATGGA

SEQ ID No. 827: 5'- CCAGCTATCGATCATCGCCT

SEQ ID No. 828: 5'- ACCAGCTATCGATCATCGCC

SEQ ID No. 829: 5'- CAGCTATCGATCATCGCCTT

SEQ ID No. 830: 5'- AGCTATCGATCATCGCCTTG

SEQ ID No. 831: 5'- GCTATCGATCATCGCCTTGG

SEQ ID No. 832: 5'- CTATCGATCATCGCCTTGGT

SEQ ID No. 833: 5'- TTCGTGCGACTTGCATGTGT

SEQ ID No. 834: 5'- TCGATCATCGCCTTGGTAGG

SEQ ID No. 835: 5'- ATCGATCATCGCCTTGGTAG

SEQ ID No. 836: 5'- CACAGGCGACTTGCGCCTTT

SEQ ID No. 837: 5'- CCACAGGCGACTTGCGCCTT

SEQ ID No. 838: 5'- TCCACAGGCGACTTGCGCCT

SEQ ID No. 839: 5'- TCCTCCACAGGCGACTTGCG

SEQ ID No. 840: 5'- CCTCCACAGGCGACTTGCGC

SEQ ID No. 841: 5'- CTCCACAGGCGACTTGCGCC

SEQ ID No. 842:   5'- ACAGGCGACTTGCGCCTTTG

SEQ ID No. 843:   5'- AGCCCCGGTTTCCCGGCGTT

SEQ ID No. 844:   5'- CGCCTTTCCTTTTTCCTCCA

SEQ ID No. 845:   5'- GCCCCGGTTTCCCGGCGTTA

SEQ ID No. 846:   5'- GCCGCCTTTCCTTTTTCCTC

SEQ ID No. 847:   5'- TAGCCCCGGTTTCCCGGCGT

SEQ ID No. 848:   5'- CCGGGTACCGTCAAGGCGCC

SEQ ID No. 849:   5'- AAGCCGCCTTTCCTTTTTCC

SEQ ID No. 850:   5'- CCCCGGTTTCCCGGCGTTAT

SEQ ID No. 851:   5'- CCGGCGTTATCCCAGTCTTA

SEQ ID No. 852:   5'- AGCCGCCTTTCCTTTTTCCT

SEQ ID No. 853:   5'- CCGCCTTTCCTTTTTCCTCC

SEQ ID No. 854:   5'- TTAGCCCCGGTTTCCCGGCG

SEQ ID No. 855:   5'- CCCGGCGTTATCCCAGTCTT

SEQ ID No. 856:   5'- GCCGGGTACCGTCAAGGCGC

SEQ ID No. 857:   5'- GGCCGGGTACCGTCAAGGCG

SEQ ID No. 858:   5'- TCCCGGCGTTATCCCAGTCT

SEQ ID No. 859:   5'- TGGCCGGGTACCGTCAAGGC

SEQ ID No. 860:   5'- GAAGCCGCCTTTCCTTTTTC

SEQ ID No. 861:   5'- CCCGGTTTCCCGGCGTTATC

SEQ ID No. 862:   5'- CGGCGTTATCCCAGTCTTAC

SEQ ID No. 863:   5'- GGCGTTATCCCAGTCTTACA

SEQ ID No. 864:   5'- GCGTTATCCCAGTCTTACAG

SEQ ID No. 865:   5'- CGGGTACCGTCAAGGCGCCG

SEQ ID No. 866:   5'- ATTAGCCCCGGTTTCCCGGC

SEQ ID No. 867:   5'- AAGGGGAAGGCCCTGTCTCC

SEQ ID No. 868:   5'- GGCCCTGTCTCCAGGGAGGT

SEQ ID No. 869:   5'- AGGCCCTGTCTCCAGGGAGG

SEQ ID No. 870:   5'- AAGGCCCTGTCTCCAGGGAG

SEQ ID No. 871:   5'- GCCCTGTCTCCAGGGAGGTC

SEQ ID No. 872:   5'- CGTTATCCCAGTCTTACAGG

SEQ ID No. 873:   5'- GGGTACCGTCAAGGCGCCGC

SEQ ID No. 874:   5'- CGGCAACAGAGTTTTACGAC

SEQ ID No. 875:   5'- GGGGAAGGCCCTGTCTCCAG

SEQ ID No. 876:   5'- AGGGGAAGGCCCTGTCTCCA

SEQ ID No. 877:   5'- GCAGCCGAAGCCGCCTTTCC

SEQ ID No. 878:   5'- TTCTTCCCCGGCAACAGAGT

SEQ ID No. 879:   5'- CGGCACTTGTTCTTCCCCGG

SEQ ID No. 880:   5'- GTTCTTCCCCGGCAACAGAG

SEQ ID No. 881:   5'- GGCACTTGTTCTTCCCCGGC

SEQ ID No. 882:   5'- GCACTTGTTCTTCCCCGGCA

SEQ ID No. 883:   5'- CACTTGTTCTTCCCCGGCAA

SEQ ID No. 884:   5'- TCTTCCCCGGCAACAGAGTT

SEQ ID No. 885:   5'- TTGTTCTTCCCCGGCAACAG

SEQ ID No. 886:   5'- ACTTGTTCTTCCCCGGCAAC

SEQ ID No. 887:   5'- TGTTCTTCCCCGGCAACAGA

SEQ ID No. 888:   5'- CTTGTTCTTCCCCGGCAACA

SEQ ID No. 889:   5'- ACGGCACTTGTTCTTCCCCG

SEQ ID No. 890:   5'- GTCCGCCGCTAACCTTTTAA

SEQ ID No. 891:   5'- CTGGCCGGGTACCGTCAAGG

SEQ ID No. 892:   5'- TCTGGCCGGGTACCGTCAAG

SEQ ID No. 893:   5'- TTCTGGCCGGGTACCGTCAA

SEQ ID No. 894:   5'- CAATGCTGGCAACTAAGGTC

SEQ ID No. 895:   5'- CGTCCGCCGCTAACCTTTTA

SEQ ID No. 896:   5'- CGAAGCCGCCTTTCCTTTTT

SEQ ID No. 897:   5'- CCGAAGCCGCCTTTCCTTTT

SEQ ID No. 898:   5'- GCCGAAGCCGCCTTTCCTTT

SEQ ID No. 899:   5'- AGCCGAAGCCGCCTTTCCTT

SEQ ID No. 900:   5'- ACCGTCAAGGCGCCGCCCTG

SEQ ID No. 901:   5'- CCGTGGCTTTCTGGCCGGGT

SEQ ID No. 902:   5′- GCTTTCTGGCCGGGTACCGT

SEQ ID No. 903:   5′- GCCGTGGCTTTCTGGCCGGG

SEQ ID No. 904:   5′- GGCTTTCTGGCCGGGTACCG

SEQ ID No. 905:   5′- CTTTCTGGCCGGGTACCGTC

SEQ ID No. 906:   5′- TGGCTTTCTGGCCGGGTACC

SEQ ID No. 907:   5′- GTGGCTTTCTGGCCGGGTAC

SEQ ID No. 908:   5′- CGTGGCTTTCTGGCCGGGTA

SEQ ID No. 909:   5′- TTTCTGGCCGGGTACCGTCA

SEQ ID No. 910:   5′- GGGAAGGCCCTGTCTCCAGG

SEQ ID No. 911:   5′- CGAAGGGGAAGGCCCTGTCT

SEQ ID No. 912:   5′- CCGAAGGGGAAGGCCCTGTC

SEQ ID No. 913:   5′- GAAGGGGAAGGCCCTGTCTC

SEQ ID No. 914:   5′- GGCGCCGCCCTGTTCGAACG

SEQ ID No. 915:   5′- AGGCGCCGCCCTGTTCGAAC

SEQ ID No. 916:   5′- AAGGCGCCGCCCTGTTCGAA

SEQ ID No. 917:   5′- CCCGGCAACAGAGTTTTACG

SEQ ID No. 918:   5′- CCCCGGCAACAGAGTTTTAC

SEQ ID No. 919:   5′- CCATCTGTAAGTGGCAGCCG

SEQ ID No. 920:   5′- TCTGTAAGTGGCAGCCGAAG

SEQ ID No. 921:   5′- CTGTAAGTGGCAGCCGAAGC

SEQ ID No. 922:   5′- CCCATCTGTAAGTGGCAGCC

SEQ ID No. 923:   5′- TGTAAGTGGCAGCCGAAGCC

SEQ ID No. 924:   5′- CATCTGTAAGTGGCAGCCGA

SEQ ID No. 925:   5′- ATCTGTAAGTGGCAGCCGAA

SEQ ID No. 926:   5′- CAGCCGAAGCCGCCTTTCCT

SEQ ID No. 927:   5′- GGCAACAGAGTTTTACGACC

SEQ ID No. 928:   5′- CCGGCAACAGAGTTTTACGA

SEQ ID No. 929:   5′- TTCCCCGGCAACAGAGTTTT

SEQ ID No. 930:   5′- CTTCCCCGGCAACAGAGTTT

SEQ ID No. 931:   5′- TCCCCGGCAACAGAGTTTTA

SEQ ID No. 932:   5'- CCGTCCGCCGCTAACCTTTT

SEQ ID No. 933:   5'- CTTCCTCCGACTTACGCCGG

SEQ ID No. 934:   5'- CCTCCGACTTACGCCGGCAG

SEQ ID No. 935:   5'- TTCCTCCGACTTACGCCGGC

SEQ ID No. 936:   5'- TCCTCCGACTTACGCCGGCA

SEQ ID No. 937:   5'- TCCGACTTACGCCGGCAGTC

SEQ ID No. 938:   5'- CCGACTTACGCCGGCAGTCA

SEQ ID No. 939:   5'- GCCTTCCTCCGACTTACGCC

SEQ ID No. 940:   5'- CCTTCCTCCGACTTACGCCG

SEQ ID No. 941:   5'- GCTCTCCCCGAGCAACAGAG

SEQ ID No. 942:   5'- CTCTCCCCGAGCAACAGAGC

SEQ ID No. 943:   5'- CGCTCTCCCCGAGCAACAGA

SEQ ID No. 944:   5'- CTCCGACTTACGCCGGCAGT

SEQ ID No. 945:   5'- TCTCCCCGAGCAACAGAGCT

SEQ ID No. 946:   5'- CGACTTACGCCGGCAGTCAC

SEQ ID No. 947:   5'- TCGGCACTGGGGTGTGTCCC

SEQ ID No. 948:   5'- GGCACTGGGGTGTGTCCCCC

SEQ ID No. 949:   5'- CTGGGGTGTGTCCCCCCAAC

SEQ ID No. 950:   5'- CACTGGGGTGTGTCCCCCCA

SEQ ID No. 951:   5'- ACTGGGGTGTGTCCCCCCAA

SEQ ID No. 952:   5'- GCACTGGGGTGTGTCCCCCC

SEQ ID No. 953:   5'- TGGGGTGTGTCCCCCCAACA

SEQ ID No. 954:   5'- CACTCCAGACTTGCTCGACC

SEQ ID No. 955:   5'- TCACTCCAGACTTGCTCGAC

SEQ ID No. 956:   5'- CGGCACTGGGGTGTGTCCCC

SEQ ID No. 957:   5'- CGCCTTCCTCCGACTTACGC

SEQ ID No. 958:   5'- CTCCCCGAGCAACAGAGCTT

SEQ ID No. 959:   5'- ACTCCAGACTTGCTCGACCG

SEQ ID No. 960:   5'- CCCATGCCGCTCTCCCCGAG

SEQ ID No. 961:   5'- CCATGCCGCTCTCCCCGAGC

SEQ ID No. 962:   5'- CCCCATGCCGCTCTCCCCGA

SEQ ID No. 963:   5'- TCACTCGGTACCGTCTCGCA

SEQ ID No. 964:   5'- CATGCCGCTCTCCCCGAGCA

SEQ ID No. 965:   5'- ATGCCGCTCTCCCCGAGCAA

SEQ ID No. 966:   5'- TTCGGCACTGGGGTGTGTCC

SEQ ID No. 967:   5'- TGCCGCTCTCCCCGAGCAAC

SEQ ID No. 968:   5'- TTCACTCCAGACTTGCTCGA

SEQ ID No. 969:   5'- CCCGCAAGAAGATGCCTCCT

SEQ ID No. 970:   5'- AGAAGATGCCTCCTCGCGGG

SEQ ID No. 971:   5'- AAGAAGATGCCTCCTCGCGG

SEQ ID No. 972:   5'- CGCAAGAAGATGCCTCCTCG

SEQ ID No. 973:   5'- AAGATGCCTCCTCGCGGGCG

SEQ ID No. 974:   5'- CCGCAAGAAGATGCCTCCTC

SEQ ID No. 975:   5'- GAAGATGCCTCCTCGCGGGC

SEQ ID No. 976:   5'- CCCCGCAAGAAGATGCCTCC

SEQ ID No. 977:   5'- CAAGAAGATGCCTCCTCGCG

SEQ ID No. 978:   5'- TCCTTCGGCACTGGGGTGTG

SEQ ID No. 979:   5'- CCGCTCTCCCCGAGCAACAG

SEQ ID No. 980:   5'- TGCCTCCTCGCGGGCGTATC

SEQ ID No. 981:   5'- GACTTACGCCGGCAGTCACC

SEQ ID No. 982:   5'- GGCTCCTCTCTCAGCGGCCC

SEQ ID No. 983:   5'- CCTTCGGCACTGGGGTGTGT

SEQ ID No. 984:   5'- GGGGTGTGTCCCCCCAACAC

SEQ ID No. 985:   5'- GCCGCTCTCCCCGAGCAACA

SEQ ID No. 986:   5'- AGATGCCTCCTCGCGGGCGT

SEQ ID No. 987:   5'- CACTCGGTACCGTCTCGCAT

SEQ ID No. 988:   5'- CTCACTCGGTACCGTCTCGC

SEQ ID No. 989:   5'- GCAAGAAGATGCCTCCTCGC

SEQ ID No. 990:   5'- CTCCAGACTTGCTCGACCGC

SEQ ID No. 991:   5'- TTACGCCGGCAGTCACCTGT

SEQ ID No. 992:   5′- CTTCGGCACTGGGGTGTGTC

SEQ ID No. 993:   5′- CTCGCGGGCGTATCCGGCAT

SEQ ID No. 994:   5′- GCCTCCTCGCGGGCGTATCC

SEQ ID No. 995:   5′- ACTCGGTACCGTCTCGCATG

SEQ ID No. 996:   5′- GATGCCTCCTCGCGGGCGTA

SEQ ID No. 997:   5′- GGGTGTGTCCCCCCAACACC

SEQ ID No. 998:   5′- ACTTACGCCGGCAGTCACCT

SEQ ID No. 999:   5′- CTTACGCCGGCAGTCACCTG

SEQ ID No. 1000:   5′- ATGCCTCCTCGCGGGCGTAT

SEQ ID No. 1001:   5′- GCGCCGCGGGCTCCTCTCTC

SEQ ID No. 1002:   5′- GGTGTGTCCCCCCAACACCT

SEQ ID No. 1003:   5′- GTGTGTCCCCCCAACACCTA

SEQ ID No. 1004:   5′- CCTCGCGGGCGTATCCGGCA

SEQ ID No. 1005:   5′- CCTCACTCGGTACCGTCTCG

SEQ ID No. 1006:   5′- TCCTCACTCGGTACCGTCTC

SEQ ID No. 1007:   5′- TCGCGGGCGTATCCGGCATT

SEQ ID No. 1008:   5′- TTTCACTCCAGACTTGCTCG

SEQ ID No. 1009:   5′- TACGCCGGCAGTCACCTGTG

SEQ ID No. 1010:   5′- TCCAGACTTGCTCGACCGCC

SEQ ID No. 1011:   5′- CTCGGTACCGTCTCGCATGG

SEQ ID No. 1012:   5′- CGCGGGCGTATCCGGCATTA

SEQ ID No. 1013:   5′- GCGTATCCGGCATTAGCGCC

SEQ ID No. 1014:   5′- GGGCTCCTCTCTCAGCGGCC

SEQ ID No. 1015:   5′- TCCCCGAGCAACAGAGCTTT

SEQ ID No. 1016:   5′- CCCCGAGCAACAGAGCTTTA

SEQ ID No. 1017:   5′- CCGAGCAACAGAGCTTTACA

SEQ ID No. 1018:   5′- CCATCCCATGGTTGAGCCAT

SEQ ID No. 1019:   5′- GTGTCCCCCCAACACCTAGC

SEQ ID No. 1020:   5′- GCGGGCGTATCCGGCATTAG

SEQ ID No. 1021:   5′- CGAGCGGCTTTTTGGGTTTC

SEQ ID No. 1022:   5'- CTTTCACTCCAGACTTGCTC

SEQ ID No. 1023:   5'- TTCCTTCGGCACTGGGGTGT

SEQ ID No. 1024:   5'- CCGCCTTCCTCCGACTTACG

SEQ ID No. 1025:   5'- CCCGCCTTCCTCCGACTTAC

SEQ ID No. 1026:   5'- CCTCCTCGCGGGCGTATCCG

SEQ ID No. 1027:   5'- TCCTCGCGGGCGTATCCGGC

SEQ ID No. 1028:   5'- CATTAGCGCCCGTTTCCGGG

SEQ ID No. 1029:   5'- GCATTAGCGCCCGTTTCCGG

SEQ ID No. 1030:   5'- GGCATTAGCGCCCGTTTCCG

SEQ ID No. 1031:   5'- GTCTCGCATGGGGCTTTCCA

SEQ ID No. 1032:   5'- GCCATGGACTTTCACTCCAG

SEQ ID No. 1033:   5'- CATGGACTTTCACTCCAGAC

SEQ ID No. 1037:   5'- ACCGTCTCACAAGGAGCTTT

SEQ ID No. 1038:   5'- TACCGTCTCACAAGGAGCTT

SEQ ID No. 1039:   5'- GTACCGTCTCACAAGGAGCT

SEQ ID No. 1040:   5'- GCCTACCCGTGTATTATCCG

SEQ ID No. 1041:   5'- CCGTCTCACAAGGAGCTTTC

SEQ ID No. 1042:   5'- CTACCCGTGTATTATCCGGC

SEQ ID No. 1043:   5'- GGTACCGTCTCACAAGGAGC

SEQ ID No. 1044:   5'- CGTCTCACAAGGAGCTTTCC

SEQ ID No. 1045:   5'- TCTCACAAGGAGCTTTCCAC

SEQ ID No. 1046:   5'- TACCCGTGTATTATCCGGCA

SEQ ID No. 1047:   5'- GTCTCACAAGGAGCTTTCCA

SEQ ID No. 1048:   5'- ACCCGTGTATTATCCGGCAT

SEQ ID No. 1049:   5'- CTCGGTACCGTCTCACAAGG

SEQ ID No. 1050:   5'- CGGTACCGTCTCACAAGGAG

SEQ ID No. 1051:   5'- ACTCGGTACCGTCTCACAAG

SEQ ID No. 1052:   5'- CGGCTGGCTCCATAACGGTT

SEQ ID No. 1053:   5'- ACAAGTAGATGCCTACCCGT

SEQ ID No. 1054:   5'- TGGCTCCATAACGGTTACCT

SEQ ID No. 1055:   5′- CAAGTAGATGCCTACCCGTG

SEQ ID No. 1056:   5′- CACAAGTAGATGCCTACCCG

SEQ ID No. 1057:   5′- GGCTCCATAACGGTTACCTC

SEQ ID No. 1058:   5′- ACACAAGTAGATGCCTACCC

SEQ ID No. 1059:   5′- CTGGCTCCATAACGGTTACC

SEQ ID No. 1060:   5′- GCTGGCTCCATAACGGTTAC

SEQ ID No. 1061:   5′- GGCTGGCTCCATAACGGTTA

SEQ ID No. 1062:   5′- GCTCCATAACGGTTACCTCA

SEQ ID No. 1063:   5′- AAGTAGATGCCTACCCGTGT

SEQ ID No. 1064:   5′- CTCCATAACGGTTACCTCAC

SEQ ID No. 1065:   5′- TGCCTACCCGTGTATTATCC

SEQ ID No. 1066:   5′- TCGGTACCGTCTCACAAGGA

SEQ ID No. 1067:   5′- CTCACAAGGAGCTTTCCACT

SEQ ID No. 1068:   5′- GTAGATGCCTACCCGTGTAT

SEQ ID No. 1069:   5′- CCTACCCGTGTATTATCCGG

SEQ ID No. 1070:   5′- CACTCGGTACCGTCTCACAA

SEQ ID No. 1071:   5′- CTCAGCGATGCAGTTGCATC

SEQ ID No. 1072:   5′- AGTAGATGCCTACCCGTGTA

SEQ ID No. 1073:   5′- GCGGCTGGCTCCATAACGGT

SEQ ID No. 1074:   5′- CCAAAGCAATCCCAAGGTTG

SEQ ID No. 1075:   5′- TCCATAACGGTTACCTCACC

SEQ ID No. 1076:   5′- CCCGTGTATTATCCGGCATT

SEQ ID No. 1077:   5′- TCTCAGCGATGCAGTTGCAT

SEQ ID No. 1078:   5′- CCATAACGGTTACCTCACCG

SEQ ID No. 1079:   5′- TCAGCGATGCAGTTGCATCT

SEQ ID No. 1080:   5′- GGCGGCTGGCTCCATAACGG

SEQ ID No. 1081:   5′- AAGCAATCCCAAGGTTGAGC

SEQ ID No. 1082:   5′- TCACTCGGTACCGTCTCACA

SEQ ID No. 1083:   5′- CCGAGTGTTATTCCAGTCTG

SEQ ID No. 1084:   5′- CACAAGGAGCTTTCCACTCT

SEQ ID No. 1085:   5′- ACAAGGAGCTTTCCACTCTC

SEQ ID No. 1086:   5′- TCACAAGGAGCTTTCCACTC

SEQ ID No. 1087:   5′- CAGCGATGCAGTTGCATCTT

SEQ ID No. 1088:   5′- CAAGGAGCTTTCCACTCTCC

SEQ ID No. 1089:   5′- CCAGTCTGAAAGGCAGATTG

SEQ ID No. 1090:   5′- CAGTCTGAAAGGCAGATTGC

SEQ ID No. 1091:   5′- CGGCGGCTGGCTCCATAACG

SEQ ID No. 1092:   5′- CCTCTCTCAGCGATGCAGTT

SEQ ID No. 1093:   5′- CTCTCTCAGCGATGCAGTTG

SEQ ID No. 1094:   5′- TCTCTCAGCGATGCAGTTGC

SEQ ID No. 1095:   5′- CTCTCAGCGATGCAGTTGCA

SEQ ID No. 1096:   5′- CAATCCCAAGGTTGAGCCTT

SEQ ID No. 1097:   5′- AATCCCAAGGTTGAGCCTTG

SEQ ID No. 1098:   5′- AGCAATCCCAAGGTTGAGCC

SEQ ID No. 1099:   5′- CTCACTCGGTACCGTCTCAC

SEQ ID No. 1100:   5′- GCAATCCCAAGGTTGAGCCT

SEQ ID No. 1101:   5′- GCCTTGGACTTTCACTTCAG

SEQ ID No. 1102:   5′- CATAACGGTTACCTCACCGA

SEQ ID No. 1103:   5′- CTCCTCTCAGCGATGCAG

SEQ ID No. 1104:   5′- TCGGCGGCTGGCTCCATAAC

SEQ ID No. 1105:   5′- AGTCTGAAAGGCAGATTGCC

SEQ ID No. 1106:   5′- TCCTCTCTCAGCGATGCAGT

SEQ ID No. 1107:   5′- CCCAAGGTTGAGCCTTGGAC

SEQ ID No. 1108:   5′- ATAACGGTTACCTCACCGAC

SEQ ID No. 1109:   5′- TCCCAAGGTTGAGCCTTGGA

SEQ ID No. 1110:   5′- ATTATCCGGCATTAGCACCC

SEQ ID No. 1111:   5′- CTACGTGCTGGTAACACAGA

SEQ ID No. 1112:   5′- GCCGCTAGCCCCGAAGGGCT

SEQ ID No. 1113:   5′- CTAGCCCCGAAGGGCTCGCT

SEQ ID No. 1114:   5′- CGCTAGCCCCGAAGGGCTCG

SEQ ID No. 1115:   5'- AGCCCCGAAGGGCTCGCTCG

SEQ ID No. 1116:   5'- CCGCTAGCCCCGAAGGGCTC

SEQ ID No. 1117:   5'- TAGCCCCGAAGGGCTCGCTC

SEQ ID No. 1118:   5'- GCTAGCCCCGAAGGGCTCGC

SEQ ID No. 1119:   5'- GCCCCGAAGGGCTCGCTCGA

SEQ ID No. 1120:   5'- ATCCCAAGGTTGAGCCTTGG

SEQ ID No. 1121:   5'- GAGCCTTGGACTTTCACTTC

SEQ ID No. 1122:   5'- CAAGGTTGAGCCTTGGACTT

SEQ ID No. 1123:   5'- GAGCTTTCCACTCTCCTTGT

SEQ ID No. 1124:   5'- CCAAGGTTGAGCCTTGGACT

SEQ ID No. 1125:   5'- CGGGCTCCTCTCTCAGCGAT

SEQ ID No. 1126:   5'- GGAGCTTTCCACTCTCCTTG

SEQ ID No. 1127:   5'- GGGCTCCTCTCTCAGCGATG

SEQ ID No. 1128:   5'- TCTCCTTGTCGCTCTCCCCG

SEQ ID No. 1129:   5'- TCCTTGTCGCTCTCCCCGAG

SEQ ID No. 1130:   5'- AGCTTTCCACTCTCCTTGTC

SEQ ID No. 1131:   5'- CCACTCTCCTTGTCGCTCTC

SEQ ID No. 1132:   5'- GGCTCCTCTCTCAGCGATGC

SEQ ID No. 1133:   5'- CCTTGTCGCTCTCCCCGAGC

SEQ ID No. 1134:   5'- CACTCTCCTTGTCGCTCTCC

SEQ ID No. 1135:   5'- ACTCTCCTTGTCGCTCTCCC

SEQ ID No. 1136:   5'- CTCTCCTTGTCGCTCTCCCC

SEQ ID No. 1137:   5'- GCGGGCTCCTCTCTCAGCGA

SEQ ID No. 1138:   5'- GGCTCCATCATGGTTACCTC

SEQ ID No. 1142:   5'- CTTCCTCCGGCTTGCGCCGG

SEQ ID No. 1143:   5'- CGCTCTTCCCGA(G/T)TGACTGA

SEQ ID No. 1144:   5'- CCTCGGGCTCCTCCATC(A/T)GC

2. (Original) The method according to claim 1, wherein drink-spoiling microorganisms belonging to the genus *Zygosacchaeromyces* are detected with oligonucleotide probe SEQ ID No. 1.

3. (Currently Amended) The method according to claim 1, wherein the drink-spoiling microorganism *Zygosacchaeromyces bailii* is detected with at least one oligonucleotide probe selected from the group consisting of SEQ ID No. 5 ~~to~~ through SEQ ID No. 21.

4. (Original) The method according to claim 1, wherein the drink-spoiling microorganism *Zygosacchaeromyces fermentati* is detected with oligonucleotide probe SEQ ID No. 22.

5. (Currently Amended) The method according to claim 1, wherein the drink-spoiling microorganism *Zygosacchaeromyces microellipsoides* is detected with at least one oligonucleotide probe selected from the group consisting of SEQ ID No. 23 ~~to~~ and SEQ ID No. 24.

6. (Currently Amended) The method according to claim 1, wherein the drink-spoiling microorganism *Zygosacchaeromyces mellis* is detected with at least one oligonucleotide probe selected from the group consisting of SEQ ID No. 25 through ~~to~~ SEQ ID No. 75.

7. (Currently Amended) The method according to claim 1, wherein the drink-spoiling microorganism *Zygosacchaeromyces rouxii* is detected with at least one oligonucleotide probe selected from the group consisting of SEQ ID No. 76 ~~to~~ through SEQ ID No. 126.

8. (Original) The method according to claim 1, wherein the drink-spoiling microorganisms *Zygosacchaeromyces mellis* and *Zygosacchaeromyces rouxii* are detected simultaneously with oligonucleotide probe SEQ ID No. 127.

9.   (Currently Amended) The method according to claim 1, wherein the drink-spoiling microorganism *Zygosacchaeromyces bisporus* is detected with at least one oligonucleotide probe selected from the group consisting of SEQ ID No. 128 through to SEQ ID No. 142.

10.   (Currently Amended) The method according to claim 1, wherein the drink-spoiling microorganism *Hanseniaspora uvarum* is detected with at least one oligonucleotide probe selected from the group consisting of SEQ ID No. 143 to and SEQ ID No. 144.

11.   (Currently Amended) The method according to claim 1, wherein the drink-spoiling microorganism *Candida intermedia* is detected with at least one oligonucleotide probe selected from the group consisting of SEQ ID No. 145 to and SEQ ID No. 146.

12.   (Original)   The method according to claim 1, wherein the drink-spoiling microorganism *Candida parapsilosis* is detected with oligonucleotide probe SEQ ID No. 148.

13.   (Original)   The method according to claim 1, wherein the drink-spoiling microorganism *Candida crusei* (*Issatchenkia orientalis*) is detected with oligonucleotide probe SEQ ID No. 149.

14.   (Original)   The method according to claim 1, wherein the drink-spoiling microorganisms *Brettanomyces* (*Dekkera*) *anomala* and *Dekkera bruxellensis* are detected simultaneously with oligonucleotide probe SEQ ID No. 150.

15.   (Original)   The method according to claim 1, wherein the drink-spoiling microorganism *Brettanomyces* (*Dekkera*) *bruxellensis* is detected with oligonucleotide probe SEQ ID No. 151.

16.   (Original)   The method according to claim 1, wherein the drink-spoiling microorganism *Brettanomyces* (*Dekkera*) *naardenensis* is detected with oligonucleotide probe SEQ ID No. 152.

17.   (Original)   The method according to claim 1, wherein the drink-spoiling microorganism *Pichia membranaefaciens* is detected with oligonucleotide probe SEQ ID No. 153.

18.   (Original)   The method according to claim 1, wherein the drink-spoiling microorganisms *Pichia minuta* and *Pichia anomala* are detected simultaneously with oligonucleotide probe SEQ ID No. 154.

19.   (Original)   The method according to claim 1, wherein the drink-spoiling microorganism *Saccharomyces exiguus* is detected with oligonucleotide probe SEQ ID No. 157.

20.   (Currently Amended) The method according to claim 1, wherein the drink-spoiling microorganism *Saccharomycodes ludwigii* is detected with at least one oligonucleotide probe selected from the group consisting of SEQ ID No. 158 ~~to~~ and SEQ ID No. 159.

21.   (Original)   The method according to claim 1, wherein the drink-spoiling microorganism *Saccharomyces cerevisiae* is detected with oligonucleotide probe SEQ ID No. 160.

22.   (Original)   The method according to claim 1, wherein the drink-spoiling microorganism *Mucor racemosus* is detected with oligonucleotide probe SEQ ID No. 163.

23.   (Original)   The method according to claim 1, wherein the drink-spoiling microorganism *Byssochlamys nivea* is detected with oligonucleotide probe SEQ ID No. 164.

24.   (Original)   The method according to claim 1, wherein the drink-spoiling microorganism *Neosartorya fischeri* is detected with oligonucleotide probe SEQ ID No. 165.

25.   (Original)   The method according to claim 1, wherein the drink-spoiling microorganisms *Aspergillus fumigatus* and *A. fischeri* are detected simultaneously with oligonucleotide probe SEQ ID No. 166.

26.   (Original)   The method according to claim 1, wherein the drink-spoiling microorganism *Talaromyces flavus* is detected with oligonucleotide probe SEQ ID No. 167.

27.   (Original)   The method according to claim 1, wherein the drink-spoiling microorganisms *Talaromyces bacillisporus* and *T. flavus* are detected simultaneously with oligonucleotide probe SEQ ID No. 168.

28.   (Currently Amended) The method according to claim 1, wherein the drink-spoiling microorganism *Lactobacillus collinoides* is detected with at least one oligonucleotide probe selected from the group consisting of SEQ ID No. 169 through to SEQ ID No. 269.

29.   (Currently Amended) The method according to claim 1, wherein drink-spoiling microorganisms of the genus *Leuconostoc* are detected with at least one oligonucleotide probe selected from the group consisting of SEQ ID No. 270 to and SEQ ID No. 271.

30.   (Currently Amended) The method according to claim 1, wherein the drink-spoiling microorganisms *Leuconostoc mesenteroides* and *L. pseudomesenteroides* are detected simultaneously with at least one oligonucleotide probe selected from the group consisting of SEQ ID No. 272 to through SEQ ID No. 301.

31.   (Currently Amended) The method according to claim 1, wherein the drink-spoiling microorganism *Leuconostoc pseudomesenteroides* is detected with at least one

-44-

oligonucleotide probe selected from the group consisting of SEQ ID No. 302 ~~to~~ through SEQ ID No. 341.

32. (Currently Amended) The method according to claim 1, wherein the drink-spoiling microorganism *Oenococcus oenis* is detected with at least one oligonucleotide probe selected from the group consisting of SEQ ID No. 342 ~~to~~ through SEQ ID No. 444.

33. (Currently Amended) The method according to claim 1, wherein drink-spoiling microorganisms of the genus *Weissella* are detected with at least one oligonucleotide probe selected from the group consisting of SEQ ID No. 445 ~~to~~ through SEQ ID No. 495.

34. (Currently Amended) The method according to claim 1, wherein drink-spoiling microorganisms of the genus *Lactococcus* are detected with at least one oligonucleotide probe selected from the group consisting of SEQ ID No. 496 ~~to~~ through SEQ ID No. 546.

35. (Currently Amended) The method according to claim 1, wherein drink-spoiling microorganisms of the genera *Acetobacter* and *Gluconobacter* are detected simultaneously with at least one oligonucleotide probe selected from the group consisting of SEQ ID No. 547 ~~to~~ through SEQ ID No. 608.

36. (Currently Amended) The method according to claim 1, wherein drink-spoiling microorganisms of the genera *Acetobacter*, *Gluconobacter* and *Gluconoacetobacter* are detected simultaneously with at least one oligonucleotide probe selected from the group consisting of SEQ ID No. 609 ~~to~~ through SEQ ID No. 842.

37. (Currently Amended) The method according to claim 1, wherein the drink-spoiling microorganism *Bacillus coagulans* is detected with at least one oligonucleotide probe selected from the group consisting of SEQ ID No. 843 ~~to~~ through SEQ ID No. 932.

38.   (Currently Amended) The method according to claim 1, wherein drink-spoiling microorganisms of the genus *Alicyclobacilus* are detected with at least one oligonucleotide probe selected from the group consisting of SEQ ID No. 933 ~~to~~through SEQ ID No. 1033.

39.   (Currently Amended) The method according to claim 1, wherein the drink-spoiling microorganism *Alicyclobacillus acidoterrestris* is detected with at least one oligonucleotide probe selected from the group consisting of SEQ ID No. 1037 ~~to~~and SEQ ID No. 1138.

40.   (Currently Amended) The method according to claim 1, wherein the drink-spoiling microorganisms *Alicyclobacillus cycloheptanicus and A. herbarius* are detected simultaneously with at least one oligonucleotide probe selected from the group consisting of SEQ ID No. 1142 ~~to~~through SEQ ID No. 1144.

41.   (Currently Amended) The method according to claim 2, ~~characterised in that~~wherein the at least one oligonucleotide probe is used in combination with one or more competitor probes.

42.   (Currently Amended) The method according to claim 41, ~~characterised in that~~wherein the oligonucleotide probe SEQ ID No. 1 is used in combination with one or more competitor probes selected from the group consisting of SEQ ID No. 2 ~~to~~through SEQ ID No. 4.

43.   (Currently Amended) The method according to claim 11, ~~characterised in that~~wherein the at least one oligonucleotide probe is used in combination with one or more competitor probes.

44.   (Currently Amended) The method according to claim 43, ~~characterised in that~~wherein the oligonucleotide probe SEQ ID No. 146 is used in combination with competitor probe SEQ ID No. 147.

45. (Currently Amended) The method according to claim 18, ~~characterised in that~~wherein the at least one oligonucleotide probe is used in combination with one or more competitor probes.

46. (Currently Amended) The method according to claim 45, ~~characterised in that~~wherein the oligonucleotide probe SEQ ID No. 154 is used in combination with one or more competitor probes selected from the group consisting of SEQ ID No. 155 ~~to~~and SEQ ID No. 156.

47. (Currently Amended) The method according to claim 21, ~~characterised in that~~wherein the at least one oligonucleotide probe is used in combination with one or more competitor probes.

48. (Currently Amended) The method according to claim 47, ~~characterised in that~~wherein the oligonucleotide probe SEQ ID No. 160 is used in combination with one or more competitor probes selected from the group consisting of SEQ ID No. 161 ~~to~~and SEQ ID No. 162.

49. (Currently Amended) The method according to claim 38, ~~characterised in that~~wherein the at least one oligonucleotide probe is used in combination with one or more competitor probes.

50. (Currently Amended) The method according to claim 49, ~~characterised in that~~wherein the oligonucleotide probe SEQ ID No. 933 is used in combination with one or more competitor probes selected from the group consisting of SEQ ID No. 1034 ~~to~~through SEQ ID No. 1036.

51. (Currently Amended) The method according to claim 39, ~~characterised in that~~wherein the at least one oligonucleotide probe is used in combination with one or more competitor probes.

52.   (Currently Amended) The method according to claim 51, ~~characterised in that~~wherein the oligonucleotide probe SEQ ID No. 1044 is used in combination with the competitor probe SEQ ID No. 1139.

53.   (Currently Amended) The method according to claim 51, ~~characterised in that~~wherein the oligonucleotide probe SEQ ID No. 1057 is used in combination with one or more competitor probes selected from the group consisting of SEQ ID No. 1140 ~~to~~and SEQ ID No. 1141.

54.   (Currently Amended) The method according to ~~any of claims~~claim 1 ~~to 53~~, characterized in by comprising the following steps:

   a)   cultivating the drink-spoiling microorganisms contained in the sample,

   b)   fixing the drink-spoiling microorganisms contained in the sample,

   c)   incubating the fixed microorganisms with at least one oligonucleotide probe optionally in combination with a competitor probe,

   d)   removing non-hybridised oligonucleotide probes,

   e)   detecting and visualizing and optionally quantifiying the drink-spoiling microorganisms with the hybridized oligonucleotide probes.

55.   (Currently Amended) The method according to ~~any of claims~~claim 1 ~~to 54~~, ~~chacterized in that~~wherein the sample is a sample from_a non-alcoholic ~~beverages~~beverage.

56.   (Currently Amended) A kit for performing a method according to claim~~any of claims~~ 1 ~~to 55~~, containing at least one oligonucleotide according to claim 1.